7706451 English 01-2015

VOLVO PENTA

www.volvopenta.com

ACCESSORIES & MAINTENANCE PARTS

GENUINE VOLVO PENTA PARTS AND ACCESSORIES

When using Genuine Volvo Penta Parts and Accessories you are assured that you will maintain and optimize your Volvo Penta product to the highest quality standard.

Our core values – Quality, Safety and Environmental Care – are always built-in to each component. We design, test, develop and manufacture our genuine parts and accessories to the same quality level as we do with our engines. In this way you get high quality products with a warranty that you can rely on. Each component is original and made to match.

At your Volvo Penta Dealer you will find specially trained mechanics that will handle and fit the components correctly onto your Volvo Penta product. More than this, you get one contact for everything. Volvo Penta dealers also handle service, maintenance, support and warranties for all Volvo Penta products.

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HIGHLIGHTS

For more information about our latest news please go to www.volvopenta.com/leaflets or use the QR code.

SAILBOAT CONTROL

The Volvo Penta mechanical sailboat control is designed very much with sailing in mind as well as for controlling your engine. Its shape and compact dimensions minimises the risk of rope entanglement. Made from solid 316 stainless steel, it is tough and robust, simply a perfect match for the harsh marine environment your boat thrives in.

PAGE 15

STEER WITH STYLE

Accessories can make all the difference. Take a look at the Volvo Penta range of exclusive and ergonomic steering wheels for example.

PAGE 28

PROPELLER SHAFT COUPLING

The new rigid propeller shaft coupling make installation easier and less time consuming. It requires no costly machining and thanks to the two-piece conic design, the coupling is perfectly centred onto the propeller shaft. This is essential for minimal vibration, low noise and a better boating experience.

PAGE 54

THE J-SERIES PROPELLER

An all-new modern aluminium propeller designed for our classic drives. The patented blade geometry provide excellent grip plus virtually cavitation free and comfortable running. Special high strength aluminium alloy make them stronger and more durable than traditional die cast propellers.

PAGE 62

STREAMLINE YOUR SAILING

Minimal drag when sailing. Maximum thrust under power. Safe and quiet operation. Three strong reasons for Volvo Penta folding propellers

PAGE 70

EVC

EVC – Electronic Vessel Control – is Volvo Penta's common electronic platform for controlling engine and transmission and integrating all driver information. EVC is based on CAN-bus technology and lets engine, drives, controls and instruments quickly exchange information. It constantly supervises all important functions and takes precautionary measures if needed, always keeping you updated in an intuitive way.

Furthermore, EVC also opens up a lot of possibilities when it comes to installing new, previously unthinkable, hardware and software features. Joystick driving and docking, Low-speed mode, Powertrim assistant and more – are all based on the intelligence of EVC.

CONTROLS

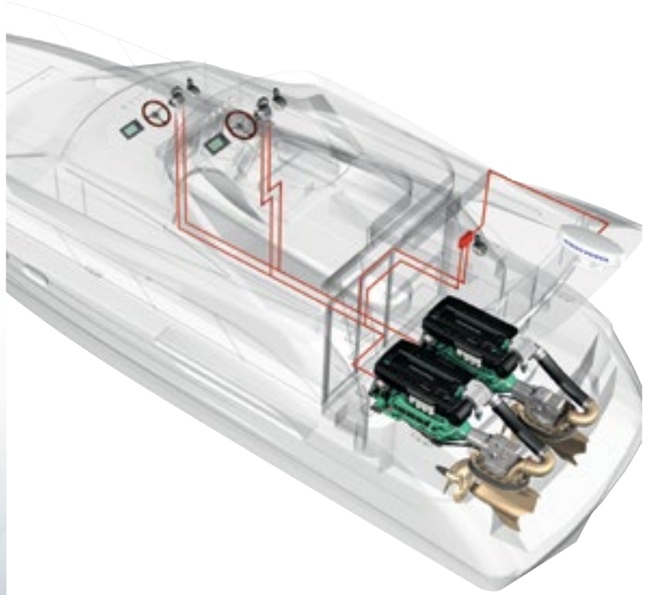
Volvo Pentas wide range of ergonomically, solid and smart EVC controls.

INSTRUMENTS

Multi-information displays and EVC instruments with all the information that you want.

Please contact your local Volvo Penta dealer to determine your EVC generation. Use our matchlists to know what controls, instruments and software that complies with your EVC generation.

Read more at www.volvopenta.com/matchlist



CONTROLS

The line-up of EVC controls features something for every taste. All features are chosen and designed to offer the best level of safety and comfort. All Volvo Penta controls are ergonomic and have a solid feel to them. The EVC controls are developed together with the EVC system for maximum reliability.

In line with Volvo Penta's "Easier boating" concept, a number of functions have been built into the new controls. The controls comes with:

- **Station on/off function**
- **Throttle only function**

PUSH-BUTTONS FOR EVC OPTIONS SUCH AS:

- **Low-speed mode**
- **Single-lever mode**
- **Cruise control**

	IPS		Diesel Inboard		Aquamatic Sterndrive			
	Twin*	**Joystick**	**Twin**	**Single**	**Twin**	**Single**	**Single**	**Joystick**
EVC-E	22293953	21846873	22293953	22293951	21730160	21730157	21847446	21846873
EVC-D	22293953	21846873	22293953	22293951	21730160	21730157	21847446	21846873

*Also for triple and quadruple installations.

	IPS		Diesel Inboard		Aquamatic Sterndrive	
	Twin*	**Twin***	**Twin**	**Twin**	**Twin**	**Twin**
EVC-C	21164033	21164029	21164033	21164029	21164033	21164029
EVC-B	21164033	21164029	21164033	21164029	21164033	21164029
EVC-A	21164033	21164029	21164033	21164029	21164033	21164029

	IPS	Diesel Inboard			Aquamatic Sterndrive		
	Joystick**	**Single**	**Single**	**Single**	**Single**	**Single**	**Single**
EVC-C	21846873	21164031	21164027	3847394	21164031	21164027	3847394
EVC-B	21846873	21164031	21164027	3847394	21164031	21164027	3847394
EVC-A	21846873	21164031	21164027	3847394	21164031	21164027	3847394

*Also for triple and quadruple installations.
** Replaces the old Joystick.

EVC OPTIONS

The EVC system opens up a world of new opportunities that make driving, safer and more fun. The following options are available for our EVC engines.

Use our matchlists to know what options are available for you EVC engine: www.volvopenta.com/matchlist

DYNAMIC POSITIONING SYSTEM

The Dynamic Positioning System lets you practically freeze your boat's position and heading – the perfect feature when preparing for docking or waiting for refueling.

LOW-SPEED MODE

Reduces boat speed at idling by 50 % from 5–6 knots to 2–3 knots. Integrated in the control and perfect when driving in marinas and canals.

POWERTRIM ASSISTANT

Automatically gives you the best possible drive trim. The result is a perfect running attitude for optimum performance and low fuel consumption.

INTERCEPTOR SYSTEM

The new, robust interceptor system, IS, gives comfortable rides in all conditions. With the optional automatic mode, your boat's attitude is always optimized.

GLASS COCKPIT SYSTEM

Gathers all driver information in one place – for enhanced overview and instant control of both navigation and engine.

TRIP COMPUTER

Full trip computer functionality with information about fuel consumption, distance to empty, trip time and much more.

SINGLE-LEVER MODE

Lets you operate twin, triple or quadruple engines with one lever. Easy and precise control over speed even in rough seas.

JOYSTICK DOCKING

The skipper's best friend that makes docking easy, even fun. Intuitive, one-hand manoeuvring in close quarters.

JOYSTICK DRIVING & AUTOPILOT

A whole new way to manoeuvre your boat with precision at all speeds. You steer comfortably by pushing and rotating the joystick. The integrated autopilot supports by automatically engaging after every course change. A smart, new option for intuitive driving.

CRUISE CONTROL

A useful feature that provides fingertip control of engine rpm, letting you optimize boat speed for best possible fuel economy as well as comfort.

TOW MODE FOR WATER SPORT

Limits your engine to your preset maximum rpm, and maintains that speed, compensating for any changes in load, giving maximum water sport fun.

Easy Boating options

Take the opportunity to customize your boat with the options of your choice – when you order a new boat or when you wish to upgrade your present boat. The table shows what is available for each drive system. Talk to your Volvo Penta dealer for advice!

	Volvo Penta IPS	Aquamatic Sterndrive	Inboard
Dynamic Positioning System	●	–	–
Interceptor system	●	●	●
Glass Cockpit system	●	●	●
Joystick Docking	●	● 1)	–
Joystick Driving	●	● 1)	–
Autopilot	●	● 1)	
Powertrim Assistant	–	●	–
Low-speed Mode	●	–	● 3)
Trip computer	●	●	●
Cruise control	●	●	●
Single-lever Mode	●	●	●
Tow Mode for water sport	–	● 2)	–
Sportfish Mode	●	–	–

● Available
– Not available
1) Requires factory-installed electronic steering
2) Single installations
3) D4-D13

EVC Full control

The Full Control program, gives you a package of our most popular EVC options at a favorable price. You can read more about the options on page 8 and movies are available on www.volvopenta.com/fullcontrol. The packages vary between controls and drive systems. See table below. The packages should preferably be installed at the delivery of the boat but they can be added afterwards, please contact your local Volvo Penta dealer.

Selected options may vary between markets.

	IPS	Diesel Inboard		Aquamatic Sterndrive		
	Twin	Twin	Single	Twin	Single	Single
Trip computer	●	●	●	●	●	●
Cruise control	●	●	●	●	●	●
Powertrim Assistant				●	●	●
Single-lever	●	●		●		
Tow Mode						●

INSTRUMENTS

The information you want, at up to four different places on board, including the availability of engine data in your chart plotter. The instruments are developed for Volvo Penta engines, and give highly accurate readings and reliability.

Volvo Penta instruments are developed exclusively for the EVC system. A guarantee for accurate readings and high reliability. Furthermore they are easy to read day and night, thanks to double glazing and sophisticated lighting.

Engine monitoring displays

With Volvo Penta engine monitoring displays, you get all the information you need in one place. Thanks to the trip computer functions, it is easy to find your most economical cruising speed, adjust for the optimum trim angle, etc. You have direct access to all essential engine and boat data and you can adapt the information presentation to your own preferences. An important benefit is that you get messages, such as error codes, in plain text.

2.5" display

The 2.5" display is an information center in a compact size.

Generation	Part no
EVC-E	21846916
EVC-D	21846916

4" display (b/w)

The 4" black and white display can show data from two engines at the same time, plus trip computer information.

Generation	Part no
EVC-C	22072254
EVC-B	22072190
EVC-A	3807827

4" colour display

The 4" full-colour display is easy to read with custom screens. It shows all available information for one or two engines.

Generation	Part no
EVC-E	22369186
EVC-D	22369186

7" colour display

The 7" full-colour display shows all available information for up to three engines in a new interface. Digital or analogue readers, your tailored view or standard view, etc. Active software functions, such as Low-speed Mode, are displayed. There is also a video input for an onboard camera. Operation is intuitive thanks to the easy-to-understand menus.

Generation	Part no
EVC-E	22369181
EVC-D	22369181
EVC-C	22369181

EVC Tachometer 4"

Tachometer 85 mm*, with engine hours and alarm symbols in the LCD-display.

Generation	Part no	Color	RPM	
EVC A–B	881646	Black	0–4000	
EVC A–B	881652	White	0–4000	
EVC C	21628160	Black	0–4000	
EVC C	21628159	White	0–4000	
EVC MC, EVC C	21628157	White	0–4000	
EVC MC	881647	Black	0–6000	a)
EVC MC	881653	White	0–6000	a)

* Is also available in 110 mm dia.
a) Petrol - secondary station

Engine monitoring display options

Features and data	2.5"	4"	7"	Tacho-meter
Color screen		●	●	
Day/night mode		●	●	
Pop-up menus (shortcuts)		●	●	
Video input			●	
Neutral beep (on/off)	●	●	●	
Engines displayed (max)	1	2	3	1
Engine rpm	●	●	●	●
Engine hours	●	●	●	●
Coolant temperature	●	●	●	
Voltage	●	●	●	
Oil pressure	●	●	●	
Turbo pressure (diesel)	●	●	●	
Alarms and warnings	●	●	●	●
Diagnostics in text	●	●	●	
Diagnostics in text, extended info		●	●	
Transmission, oil pressure *	●	●	●	
Transmission, oil temperature *	●	●	●	
Boat speed [1]	●	●	●	
Fuel level [2]	●	●	●	
Fresh water level [2]	●	●	●	
Depth with alarm [2]	●	●	●	
Sea water temperature [2]	●	●	●	
Rudder angle [2]	●	●	●	
Powertrim angle (Aquamatic)	●	●	●	
Active Corrosion Protection info [3]	●	●	●	
Low-speed mode, slip rate [4]	●	●	●	
With Trip computer software:	○	○	○	
Instant fuel rate	●	●	●	
Trip time	●	●	●	
Trip fuel	●	●	●	
Average fuel rate	●	●	●	
Time to empty	●	●	●	
Instant fuel economy [1]	●	●	●	
Trip distance [1]	●	●	●	
Average fuel economy [1]	●	●	●	
Distance to empty [1]	●	●	●	
With Dynamic Positioning System:			○	
Bearing			●	
Direction of movement			●	
GPS signal strength			●	

GLASS COCKPIT

Integrated with the EVC system, the Glass Cockpit gathers all driver information and displays it in one spot. The easy-to-handle, pinch-to-zoom displays give you instant control. Six displays in two versions are available in different sizes from 8 to 19".

ONE LOOK. ONE TOUCH. ONE SYSTEM.

When you power up your boat all screens light up simultaneously, in a car-like manner. All settings that you control, including instrument dimming, are carried out concurrently at the helm and the flybridge. With the Glass Cockpit system you get a common, ergonomic design – and interface – for the whole dashboard, with push-buttons on the controls and touch-buttons on the screens.

AUTO GUIDANCE

This unique feature searches through all relevant charts to create a route you can follow – and avoid shallow water, buoys and other obstacles. Coupled with the autopilot, it not only shows the way, it takes you there!

TOTAL INTEGRATION

Full EVC functionality means that you monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.

Use our matchlists to know what features/data are available for you EVC engine: www.volvopenta.com/matchlist

● Standard ○ Optional. *Depending on transmission. Requires sensors.

1) Requires extra sensor or NMEA interface.
2) Requires extra sensor.
3) Volvo Penta IPS. Requires Active Corrosion Protection.
4) Requires low-speed mode.

NMEA

NMEA is the standard used by all the leading suppliers of marine electronics today. For you, it means that you have a system that is compatible with your other onboard electronics and is future proof.

The EVC-display can show your speed through the water and speed over ground. This data is also used to calculate your fuel consumption per mile, etc. For NMEA 2000 systems, all engine data is available for other instruments. For example, you can read all engine data in a compatible chart plotter.

EVC Generation	System	Part no
EVC B-E2	NMEA 0183	3807587
EVC B-E2	NMEA 2000	3889758

1. 2. Speedometer instrument (5"/110 mm)

No units, select mph, km/h or knots.

Part no	Colour	Generation	Interval	
21234531	Black	MC (D3), EVC-C	0-40	a)
21234532	White	MC (D3), EVC-C	0-40	a)
21234533	Black	MC (D3), EVC-C	0-60	a)
21234534	White	MC (D3), EVC-C	0-60	a)

3. Speedometer instrument, 85 mm

Part no	Colour	Speed	
874916	Black	0-20 knots/23 mph	a)
874929	White	0-20 knots/23 mph	a)
874917	Black	0-40 knots/45 mph	a)
874930	White	0-40 knots/45 mph	a)
881645	Black	0-60 knots/70 mph	a)
881650	White	0-60 knots/70 mph	a)

4. 4-in-1 gauge (5"/110 mm)

Instrument with 4 gauges. Mounting kit 3885216 is needed.

Part no	Colour	Functions	
3847876	Black	Coolant temp.,voltage, oil pressure, fuel level	b)
3885214	White	Coolant temp.,voltage, oil pressure, fuel level	b)
3847879	Black	Coolant temp.,voltage, trim, fuel level	
3885215	White	Coolant temp.,voltage, trim, fuel level	

5. Fuel tank level instrument, 52 mm

Sensor 874840 is needed.

Part no	Colour
874914	Black
874926	White

6. Alarm instrument, 52 mm

7 alarms: Oil pressure, water in fuel filter, battery, coolant temperature, coolant level, oil level, fault/serious fault.

Part no	Colour	
874915	Black	
874927	White	c)

Oil temperature instrument, 52 mm

Part no	Colour	Temperature
874905	Black	0-150° C
874922	White	0-150° C
881857	Black	40-300° F
881858	White	40-300° F

7. Engine oil pressure instrument, 52 mm

Part no	Colour	Pressure	
874908	Black	0-7 bar	b)
874923	White	0-7 bar	b)
874919	Black	0-100 PSI	b)
874932	White	0-100 PSI	b)

8. Engine coolant temperature instrument, 52 mm

Part no	Colour	Temperature
874904	Black	0-120° C
874921	White	0-120° C
874918	Black	40-250° F
874931	White	40-250° F

9. Water tank level instrument, 52 mm

Freshwater level sensor 3809098 is needed.

Part no	Colour
3809992	Black
3809993	White

10. Rudder position instrument, 52 mm

Also order 3809099 and 3594073.
SX and DPS require only 3809099.

Part no	Colour
3812914	Black
3812917	White

11. 12. Drive trim position instrument, 52 mm

Diameter 52 mm.

Part no	Colour	Description
881648	Black	LCD (7-40)
881654	White	LCD (7-40)
3812881	Black	Analogue
3812911	White	Analogue

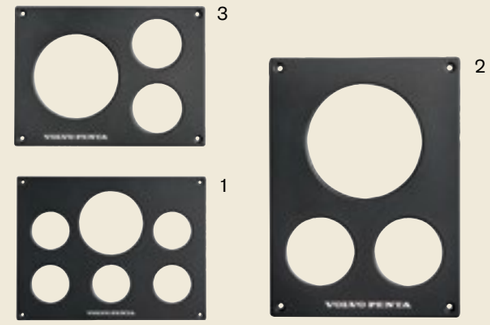
13. Turbo pressure instrument, 52 mm

Part no	Colour	Interval
874910	Black	0-3 bar
874924	White	0-3 bar
874920	Black	0-45 PSI
874933	White	0-45 PSI

14. Battery voltage instrument, 52 mm

Part no	Colour	Voltage
881649	Black	12 V
881658	White	12 V
874913	Black	24 V
874925	White	24 V

a) Also order multi sensor. Through hull 3587054. Transom mount 3587055.
b) Not D3.
c) Petrol - secondary station.



Instrument frames for flush mounted EVC instruments

Adapter for start lock, part no. 3808888, to fit in the small holes.

Part no	Width (mm)	Height (mm)	
3808885	250	190	3
3808886	140	190.5	2
3808887	190.5	140	1

ADU - Auxiliary Dimmer Unit

The ADU makes it possible to dim all your EVC-instruments through the EVC main panel.

Note! "Easy Link" must be installed on the application.

Part no
3848966

Front rings

Part no	Kit diameter	Panel thickness	Description
874843	52 mm		Flush mounting
874844	85 mm		Flush mounting
874709	52 mm	0-12 mm	Black ring
874708	85 mm	0-12 mm	Black ring
881611	52 mm	12-25 mm	Black ring
881612	85 mm	12-25 mm	Black ring
874733	52 mm	0-12 mm	Chrome ring
874732	85 mm	0-12 mm	Chrome ring
881613	52 mm	12-25 mm	Chrome ring
881614	85 mm	12-25 mm	Chrome ring

MECHANICALLY OPERATED CONTROLS & INSTRUMENTS

MECHANICALLY OPERATED CONTROLS

The Volvo Penta mechanical control heads are known for their quality, durability and excellent performance thanks to high-precision mechanics. Use with low-friction control cables for even greater ease.

Side-mounted controls, Xact

Controls with combined throttle and gear-change, equipped with a series of features to improve comfort and safety.

- Release button for starting and warming up the engine in neutral position.
- Adjustable friction brake for individual speed setting of the lever.
- Electrical neutral position switch, prevents engine being started in gear.
- Mechanical neutral position lock, prevents unintentional gear change.
- Integral switches for simple operation of the drive's trim and tilt functions.

The controls are supplied with a control mechanism and cable connection kit.

Part no	Description
3888316	Without Power-Trim function
3888318	Power Trim and cable harness, safety cut-off switch
3888319	Power Trim, safety cut-off switch
3888317	Power Trim and cable harness (20 ft)

Top-mounted controls for single installation, Xact

Control mechanisms and cables are not included.

Part no	Description
3888320	Without Power Trim-function
3888321	With Power Trim-function, incl. 20 ft harness

Sailboat control

The Volvo Penta mechanical sailboat control is designed very much with sailing in mind as well as for controlling your engine.

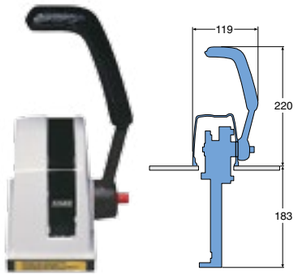
Features and benefits:

- Designed to minimize risk of rope entanglement
- Tough and robust, made for the harsh marine environment
- High quality 316 stainless steel
- Splash protected installation
- Reliable and proven mechanism with adjustable friction brake
- Mechanism can be mounted horizontally or vertically
- Neutral safety switch available as option
- Easy to upgrade previous models of sailboat controls.

The sailboat control was developed with easy upgrading from older installations as a priority. This means that the control lever can be mounted directly onto an existing Volvo Penta control mechanism. Different combinations of control lever, mechanism and cover can be used, depending on whether it's a new installation, upgrade from a 100x121 mm cover plate or upgrade from a 107x166 mm cover plate.

Part No	Description	New installation	Upgrade from small cover	Upgrade from large cover
22030229	Lever & small cover (stainless steel)	Req.	Req.	N/A
22165757	Lever (stainless steel)	N/A	N/A	Req.
Available Q3 2015	Large cover (stainless steel)	N/A	N/A	Opt.
853713	Old cover (black plastic)	N/A	N/A	Opt.
851601	Mechanism (for stainless steel covers)	Req.	Opt.	Opt.
1140095	Mechanism (for black plastic covers)	N/A	N/A	Opt.
855352	Neutral safety switch	Opt.	Opt.	Opt.
Select length	Control cable	Req.	Opt.	Opt.

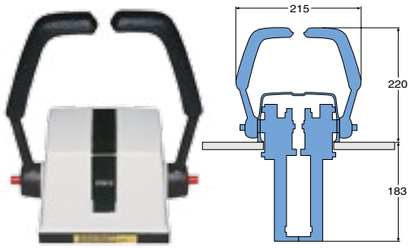
Req. = Required for a complete installation
Opt. = Optional, depending on choice
N/A = Not applicable



Control lever assembly PC-740, top-mounted, single engine installation

Control mechanism for top-mounting, part no. 851600.

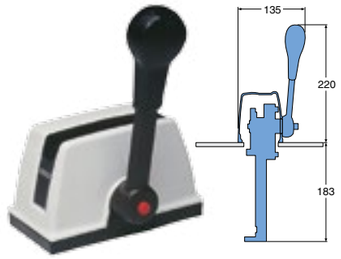
Part no
851602



Control lever assembly PC-740, top-mounted, twin engine installation

Control mechanism for top-mounting, 2 x part no. 851600.

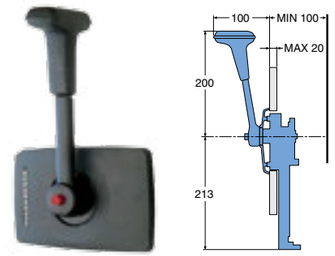
Part no
851603



Control lever assembly PC-740 with sailboat lever, top-mounted

The sailboat control lever is specially designed for sailboats where lines and halyards could snag on a joystick. Control mechanism for top-mounting, part no. 851600.

Part no
1140022



Control lever assembly PC-741, side-mounted

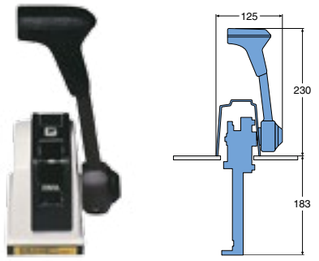
Control mechanism for side-mounting, part no. 1140095.

Part no
1140092

Control lever assembly PC-841, side-mounted with Power Trim function

Control mechanism for side-mounting, part no. 1140095.

Part no
1140091



Control lever assembly PC-840, top-mounted, single engine installation

Control mechanism for top-mounting, part no. 851600.

Part no
853168

Control lever assembly PC-840, top-mounted, single engine installation with Power Trim function

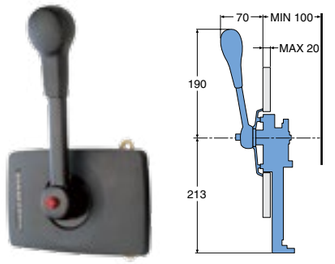
Control mechanism for top-mounting, part no. 851600.

Part no
1140043

Control lever assembly PC-840, top-mounted, twin engine installation

Control mechanism for top-mounting, 2 x part no. 851600.

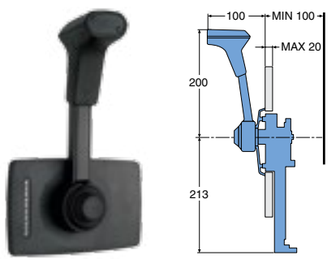
Part no
853169



Control lever assembly PC-741, with sailboat lever, side-mounted

The sailboat control lever is specially designed for sailboats where lines and halyards could snag on a joystick. Control mechanism for side-mounting, part no. 1140095.

Part no
1140093



Control lever assembly PC-841, side-mounted

Control mechanism for side-mounting, part no. 1140095.

Part no
1140090

Top-mounted controls for twin installation

Controls with combined throttle and gear-change, equipped with a series of features to improve comfort and safety.

- Release button for starting and warming up the engine in neutra-position.
- Adjustable friction brake for individual speed setting of the lever.
- Electrical neutral position switch, prevents engine being started in gear.
- Integral switches for simple operation of the drive's trim and tilt functions.

The controls are supplied with a control mechanism and cable connection kit.

Part no	Description
3849409	With Power Trim-function, 20 ft harness
3849408	Without Power Trim-function

Control mechanisms and cables are not included unless this is specifically stated.

Control mechanism for top-mounting

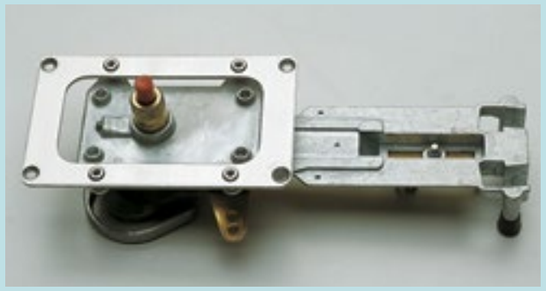
The control mechanisms must be ordered separately for PC-740 and PC-840 control lever assembly kits.

Volvo Penta's control mechanisms have a simple and safe design and are manufactured of corrosion-resistant material. The mechanism has an accelerated action which transmits lever movements into even and economic engine acceleration.

Two control mechanisms are required for twin engine installations with single lever controls.

Part no
851600

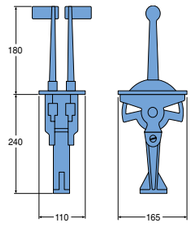
Control mechanisms and cables are not included unless this is specifically stated.



Control mechanism for side-mounting

The control mechanism must be ordered separately for PC-741 and PC-841 assemblies. Volvo Penta's control mechanisms have an uncomplicated and safe design and are manufactured of corrosion-resistant materials. The mechanism has an accelerated action which transmits lever movements into even and economic engine acceleration.

Part no	Description
1140095	PC-741/841



Double lever controls - PC-870/871 - top-mounted

Double lever controls have separate levers for gear changing and acceleration. The accelerator lever has an adjustable friction brake making it possible to adjust the “feel” of the lever to personal requirements. Two models are available, gear shift to the left or to the right. Double lever control for twin engine installations can be combined so as to have both accelerator levers in the centre of the installation. A mechanical neutral locking device allows gear shifting only at engine idling speeds. As an additional safety measure, a neutral safety switch, which only allows the engine to be started in the neutral position, is also fitted as standard.

The control lever is supplied complete with assembly kit for easy installation and connections to Volvo Penta control cables (including Xact cable).

For dual control stations with the PC-870/871 controls, the following parts are required:

2 x control lever assembly

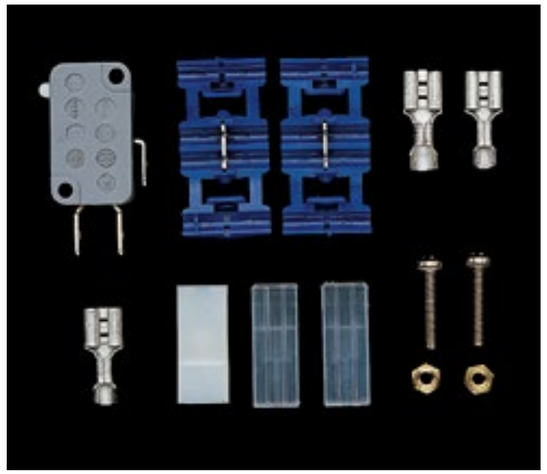
2 x connection fork, part no. 1140074 for control cables

2 x control cable between upper and lower control station

2 x control cable to engine and transmission respectively

Note! For dual control station installations with the PC-870/871 control mechanisms, no DS unit is required.

Part no	Control	Gear shift
1140067	PC-870	Port
1140068	PC-871	Starboard



Neutral safety switch

The switch prevents unintentional manoeuvring of the vessel as it only permits starting of the engine when the gear shift is in the neutral position.

Part no	Fits
855352	PC-740/741/840/841

Safety lanyard

The safety lanyard is an important safety device, particularly for fast moving boats. It consists of two parts, a switch connected to the engines electric system and a cord that is attached to the pilot. Should the pilot fall in the boat or fall overboard, the engine is automatically stopped.

Part no	Fits
3889798	TMD22-KAD300
3889799	Gasoline engines/D3 mech.
21469024	EVC-D to EVC-E2
3817104	EVC-A to EVC-C

Cord only

Part no	Fits
22027280	3889798-3889799
21552068	EVC sidemount
3858779	XACT sidemount

Dual station unit for acceleration

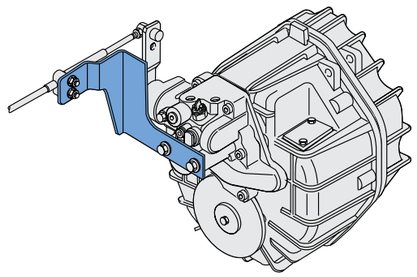
Used in conjunction with a Flybridge for the coordination of two accelerator levers to the engine.

Part no	Fits
3581041	MD 2010, 2020, 2030, 2040
3581749	MD31-43

Stop control

Cable with pull handle for installation on the bridge. The cable should be cut to the required length.

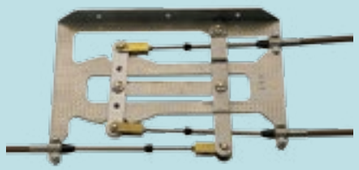
Part no	Length, m
21272376	3.3
21272378	6.9

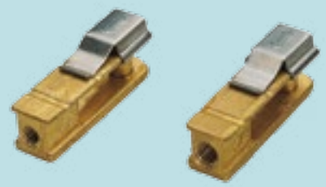


Control cable connection bracket for HS25, HS45 and HS63 reverse gear

The control cable connection to HS25, HS45, HS63 can be done either horizontally or vertically.

Part no	Connection	Description
3581960	For vertical control cable connection	Standard for HS25, optional for HS45 and HS63
3581851	For horizontal control cable connection	Standard for HS45 and HS63, optional for HS25





Dual station unit for gear shifting

Suitable for the PC-740, PC-840, PC-860 single control levers. Used in conjunction with a Flybridge for the coordination of two control levers with a single common cable for gear shifting. For twin engine installations two DS units are required. The cables should be no longer than 7 metres with the DS unit installed as close to the transmission as possible (not more than 1.5 metres from the transmission). For best results, the DS unit should be installed horizontally. Contact your local Volvo Penta dealer prior to installation, for more detailed information.

Part no
828164

Flybridge - Connection fork

Suitable for the PC-870/871 double lever controls. For vessels with a Flybridge an extra connection fork is required for the connection of double control cables between standard and flybridges. An extra connection fork is required for each cable. Fits Volvo Penta control cables or Volvo Penta Xact control cables.

Part no
1140074

Control cables

Volvo Penta's control cables are manufactured of corrosion-resistant material with an outer sheath of HD polyethylene. They are designed following Volvo Penta's extremely stringent requirements for efficient operation with a minimum of play. They are permanently lubricated to ensure a minimum of friction and long service life. Single engine installations require two cables, twin installations require four.

Xact control cables

Volvo Penta Xact Control Cables have been designed to provide the smoothest and easiest throttle/shift operation; while at the same time reducing lost motion. All fittings are stainless steel and plated brass. The all stainless steel armored strand core allows for greater flexibility and is capable of being put into tighter bends for those difficult cable routings.

Xact

Part no	L, m
21633476	1.50
21633477	1.75
21633478	2.00
21633479	2.25
21633480	2.75
21633481	3.00
21633482	3.25
21633483	3.50
21633484	4.00
21633485	4.25
21633486	4.50
21633487	4.75
21633488	5.00
21633489	5.50
21633490	5.75
21633491	6.00
21633492	6.25
21633493	6.50
21633494	7.00
21633495	7.25

Part no	L, m
21633496	7.50
21633497	7.75
21633498	8.25
21633499	8.50
21633500	8.75
21633501	9.00
21633502	9.25
21633503	9.75
21633504	10.00
21633505	10.25
21633506	10.50
21633507	11.00
21633508	11.25
21633509	11.50
21633510	11.75
21633511	12.00
21633512	12.50
21633513	12.75
21633514	13.00

Part no	L, ft
21407218	3
21407219	4
3594991	4.7
3595377	5
40005275	6
21407220	7
21407221	8
21407222	9
21407223	10
21407225	12
21407226	13
21407227	14
21407228	15
21407229	16
21407230	17
21407231	18
21407232	19
21407233	20
21407234	21
21407235	22
21407236	23
21407237	24
21407238	25
21407239	26

Part no	L, ft
21407240	27
21407241	28
21407242	29
21407243	30
21407244	31
21407245	32
21407246	33
21407247	34
21407248	35
21407249	36
21407250	37
21407251	38
21407252	39
21407253	40
21407254	41
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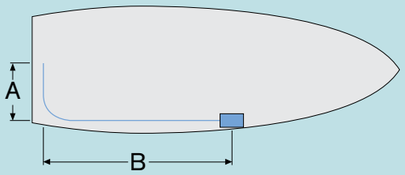
21407261	48
21407262	49



It is very important to select the exact cable length, fewer bends mean better operation and durability. Measure, in as straight a line as possible, the distance between the control mechanism and the engine/transmission connections. Calculate a radius of 200 mm for all bends. Adapt the cable as shown in the illustration L = A + B + 200 mm. If the measurement falls between two standard cable lengths, select the longer cable.

The cables must not be cut to size.

ANALOGUE INSTRUMENTS

The line-up of Volvo Pentas analogue instruments offers a wide range of engine data. The instruments are specially adapted for marine operations in corrosion-resistant material.

Clocks

Volvo Penta instruments are specially adapted for marine operations in corrosion-resistant materials, both sealed and fitted with built-in lighting. They are supplied either as a complete kit including front ring, transducers and cables and installation instructions or as separate components.

Clock

Instrument only for 1140597. Including mounting bracket but excluding front ring.

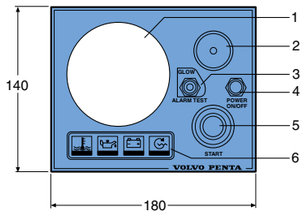
Part no
856814

Front ring for instruments

Part no	Instrument diameter	Hole diameter
858643	52	60
873517	72	90

Square instrument frame for instruments

Part no	Instrument diameter	External dimentions
856822	52	62,6 x 62,5
873210	72	93,7 x 93,7



Instrument panel, standard

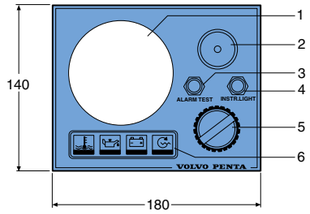
For either Main control position or Flybridge installation.

1. Opening for tachometer
2. Alarm buzzer
3. Toggle switch for pre-heater/alarm test
4. Instrument panel lighting ON/OFF switch
5. Start button
6. Warning light panel for:
   - coolant temperature
   - oil pressure
   - battery charging
   - pre-heater

Also order cover plate 858648 or tachometer 873992.

Also order cover plate 858648 or tachometer 873992.

Part no
873594



Instrument panel, standard

Intended for either Main control position or Flybridge installation.

1. Opening for tachometer
2. Alarm buzzer
3. Push-button switch for alarm test
4. Push-button switch for instrument panel lighting
5. Ignition lock
6. Warning light panel for:
   - coolant temperature
   - oil pressure
   - battery charging
   - pre-heater

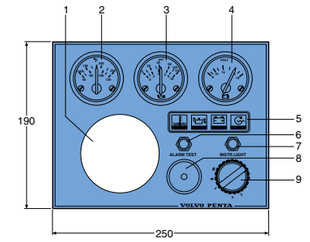
Also order cover plate 858648 or tachometer 873992.

Part no
3587077

Cover plate

To cover the tachometer opening in the instrument panel should a tachometer not be installed.

Part no
858648



Instrument panel, De Luxe

Intended for either Main control position or Flybridge installation.

1. Opening for tachometer
2. Coolant temperature gauge
3. Oil pressure gauge
4. Voltmeter
5. Warning light panel for:
   - coolant temperature
   - oil pressure
   - battery charging
   - pre-heater
6. Push-button switch for alarm test
7. Push-button switch for instrument panel lighting
8. Alarm buzzer
9. Ignition lock

Tachometer 873992 should also be ordered.

For double coolant temperature and oil pressure gauge installations, new sensors must be fitted to the engine (this applies to D31-44 engines).

Coolant temp sensor: 840074

Oil pressure sensor: 866836

Part no
3587074

Sensor kit for instrument panel, De Luxe

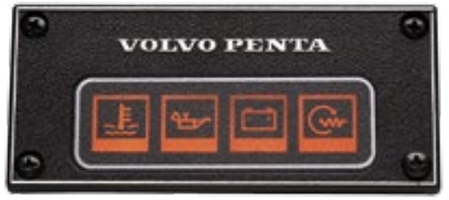
Only for MD2010, MD2020, MD2030 and MD2040.

Part no
873569

Flipped Flybridge instrument panel, De Luxe

Excluding instruments, lamps and switches. The same design and dimensions as 3587074 but in reversed image.

Part no
860184



Alarm panel display

Used when alarm functions are moved from the instrument panel and separately installed. The panel contains symbols for coolant temperature, oil pressure, battery charging and pre-heater.

Note! The display panel is merely an empty housing, the required connections, lamps, etc., must be taken from the instrument panel.

Dimensions: 113 x 50 mm

Part no
858876

Instrument kit, diesel engines

For custom designed instrument panels intended for either Main control position or Flybridge installation.

Includes:

Coolant temperature gauge
Oil pressure gauge
Battery charge meter

If required, also order:

Front rings 858643 – 1 per instrument
Mounting brackets 873207 – 1 per instrument
For double coolant temperature and oil pressure gauge installations, new sensors must be fitted to the engine.
Coolant temp sensor: 840074
Oil pressure sensor: 866836

Part no
873286

Instrument installation kit, diesel engines

For custom designed instrument panels intended for either Main control position or Flybridge installation. One instrument.

Includes: Panel with

Alarm buzzer
Push-button switch for alarm test
Push-button switch for instrument panel lighting
Start button
Stop button
Warning light panel
Cable connections

If required, also order:

Tachometer 873992
Front ring 873517
Mounting bracket 873208

Part no
873582

Toggle switch

Part no
814322

Instrument kit with tachometer, gas engines

Includes: Tachometer part no. 3855604

Coolant temperature gauge part no. 856811

Oil pressure gauge part no. 856812

Voltmeter part no. 873199

Part no
3858636

Sensor, engine coolant temperature

Intended for use with double instrumentation and replaces the standard sensor.

Part no	Description
872068	Petrol engines
840074	Diesel engines

Sensor, engine oil pressure

Intended for use with double instrumentation and replaces the standard sensor.

Part no	Description
866836	Diesel engines
872064	Petrol engines

Tachometer kit, diesel engines

Also includes operating clock. Suitable for both standard and De Luxe instrument panels 873594, 3587077, 3587074, and instrument installation kits 874036, 873582.

If required, also order:

Front ring 873517

Mounting bracket 873208

Part no
873992

Digital Power Trim instrument kit

For Flybridge installation. Equipped with display showing the trim angle of the drive. Control unit 3855650 is suitable to operate the Power Trim.

Note! 3855650 must be ordered separately.

Part no	Drive
872239	DP-E/DP-G
3858252	SX/DP-S

Analog Power Trim instrument

For SX/DP-S drive. Shows the drive trim angle. Control unit 3855650 is suitable to operate the Power Trim.

Part no
3851787

Fuel gauge, kit

The fuel gauge shows the quantity of fuel in the fuel tank – an important function for marine safety. The sensor, which is installed in the fuel tank, is equipped with a float that follows the level of fuel in the tank.

Includes: instrument, sensor, cables and front ring.

Part no
873808

Power Trim control unit

For custom made Power Trim control units:

Push-button switch for by-pass, part no. 828718.

Toggle switch, part no. 814322.

Rubber seal for toggle switch, part no. 828743.

Manoeuvring from controls – see group Control system.

Part no
3855650

Fuel gauge, instrument

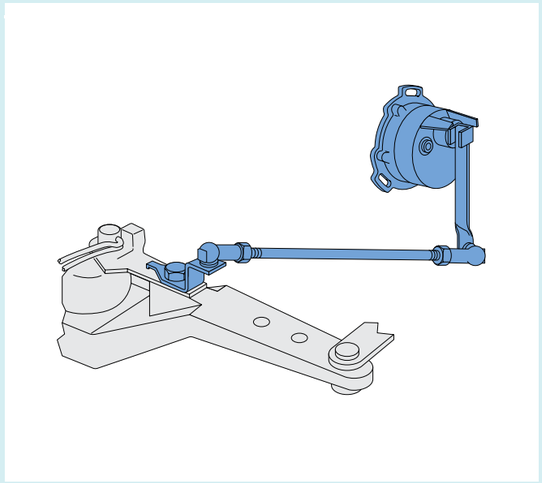
Instrument only for 873808. Including mounting bracket but excluding front ring. Front ring, see 858643.

Part no
863940

Fuel gauge, sensor

Sensor only for 873808.

Part no
873772



Rudder indicator, kit for drives, 12 V

The indicator shows the drive angle and is an invaluable aid when manoeuvring and mooring in crowded harbours. Complete kit for connection of sensor to the steering arm of the drive.

Part no
1140463

Rudder indicator, instrument, 24 V

Including mounting bracket but excluding front ring. Front ring, see 858643.

Part no
874416

Rudder indicator, kit

The indicator shows the angle of the rudder and is an invaluable aid when manoeuvring and mooring in crowded harbours.

Includes: Instrument, sensor, cables and front ring.

For DPH drive please also order 3863387.

Part no
1140465

Rudder indicator, instrument, for 12 V

Instrument only for 1140465. Including mounting bracket but excluding front ring. Front ring, see 858643.

Part no
863944

Rudder indicator, sensor

Sensor only for 1140465.

Part no
837772

Start lock kit, two locks

For dual control stations and single engine installations or single control station and twin engine installation.

Includes:

2 identical start locks, 4 identical keys.

Part no
3587068

Start lock kit, four locks

For dual control station and twin engine installations.

Includes: 4 identical start locks, 8 identical keys.

Part no
3587067

Start lock kit, two locks

Fits EVC engines.

Part no
3587070

Y-connector for Flybridge, diesel

For the connection of the Flybridge instrument panel to the existing main instrument panel.

The connector has 16-pole snap on connectors.

Part no
1140598

Diode cable, diesel

Required for pre-heater and stop function on certain installations.

Part no
873567
873568

Extension cables

Both ends of the extension cables are equipped with snap-on connectors which fit directly between the engine cables and the instrument panel.

Part no	Length, m	
846648	3	
846649	5	
846650	7	
873838	9	
873839	11	
3858151	3	
3858152	6	
3858154	3	a)
3858155	6	a)

a) From engine use cable 3858151 or 3858152.

Y connector for Power Trim - Flybridge

Part no
3855712

Extension cable for Power Trim instrument kit 872239

Length 3 m.

Part no
853052

Extension cable for Power Trim

Part no	Length, m
3855711	5
3855710	3
3857048	Pigtail

STEERING

Volvo Penta offers reliable mechanical and hydraulic systems. Both systems have zero feed back function so the steering is not affected by forces such as waves etc. All Volvo Penta steering wheels are specially adapted to marine conditions, which means that they are anti-magnetic and made of corrosion resistant materials.

VOLVO PENTA STEERING SYSTEMS

With the tilt mechanism the boat driver can choose the most comfortable steering wheel angle. Just one example of superb steering control from the wide range of electronic, hydraulic and mechanical steering systems offered by Volvo Penta. For more information, please contact your local Volvo Penta dealer or visit www.volvopenta.com

Steering wheels

- Designed to match Volvo Penta controls and displays
- Non-magnetic stainless steel
- High-quality materials
- Fits most types of steering system
- Steering wheel hub included
- Conforms with the EN 28848 standard of the Recreational Craft Directive (94/25/EC) and with the ABYC P22 Safety standards for Steering Wheels.*

Model	Classic Mahogany	Leather	Stainless	Sport Mahogany
Part no	21729995	21649809	21673214	3843317
Grip	Mahogany	Leather	316 Stainless steel	Mahogany
Spokes	316 Stainless steel	304 Stainless steel	316 Stainless steel	Anodized aluminium
Recommended use	Indoor/Cabin	Indoor/Cabin	Outdoor	Indoor/Cabin
Diameter	350 mm	350 mm	370 mm	340 mm
Mounting	Std ¾" tapered shaft	Std ¾" tapered shaft	Std ¾" tapered shaft	Std ¾" tapered shaft

* Does not apply to the Sport Mahogany steering wheel.

Hydraulic Steering

The strength required to steer a boat equipped with a hydraulic steering system is inversely proportional to the number of turns of the wheel lock-to-lock. The wheel turns are determined by the ratio between the cylinder volume, the pump displacement and the free movement of the steering device, e.g. the rudder. A large cylinder volume and small pump displacement results in a greater number of wheel turns and a small cylinder volume and a large pump displacement results in less number of wheel turns.

Fewer wheel turns means quicker steering response but more effort needed and more wheel turns means slower steering response but less effort. The Hydraulic Steering Helm pumps are available in three different displacement sizes, i.e. 28 cc, 33 cc and 39 cc. Each of them are available for three different ways of mounting, i.e. front mount, rear mount and tilt mount. Three steering cylinders are available, all for rudder installations, and comprising volume 116 cc, 168 cc and 215 cc respectively.

Adjustable steering wheel

The tilt mechanism allows for five locking positions in the range of 48 degrees (+/- 24 degrees) tilt angle of the Steering Wheel. With the tilt steering mechanism, the boat driver can choose the best personal steering wheel angle.

Hydraulic Steering

Part no	Displ./rev	Max. wheel dia.	No. of pistons	Pump	Relief valve setting	Weight, kg	
22275070	28 cc	711 mm	5	Front mount helm pump	70 bar	5 kg	
22275071	33 cc	711 mm	7	Front mount helm pump	70 bar	5 kg	
21135050	39 cc	711 mm	7	Front mount helm pump	70 bar	5 kg	
21135048	28 cc	711 mm	5	Rear mount helm pump	70 bar	5 kg	
22275074	33 cc	711 mm	7	Rear mount helm pump	70 bar	5 kg	
21135051	39 cc	711 mm	7	Rear mount helm pump	70 bar	5 kg	
21135049	28 cc	508 mm	5	Tilt mount helm pump	70 bar	5 kg	a)
22275077	33 cc	508 mm	7	Tilt mount helm pump	70 bar	5 kg	a)
22275078	39 cc	508 mm	7	Tilt mount helm pump	70 bar	5 kg	a)
22299003				Tilt mechanism			

a) Requires the tilt mechanism, which has to be ordered separately.

Steering cylinders for hydraulic steering

Part no	3/8" (9,5 mm) fittings	Output force	Stroke	Torque	Volume, cm^3
3809981	For high pressure flexible hose	455 kg	178 mm	53 kgm	116
3809982	For high pressure flexible hose	682 kg	178 mm	87 kgm	168
3809983	For high pressure flexible hose	682 kg	228 mm	111 kgm	215

Connecting kit, etc.

Part no	Description
1140584	Hydraulic high pressure flexible nylon hose 3/8"
192618	Air bleed hose
3809446	Hydraulic oil, 1 litre

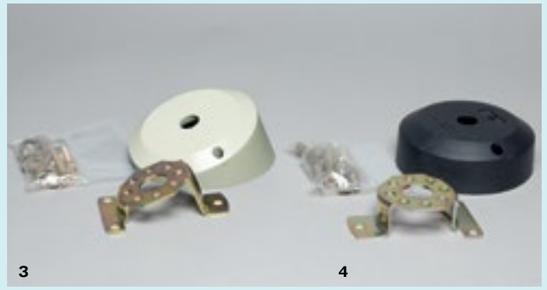
Tie bar

For double engine installations. Conforms with the EN 28848 standard of the Recreational Craft Directive (94/25/EC). Conforms with the ABYC P22 Safety standards for Steering Wheels

Part no	CC between engines	Fits drive
3841706	660-1040 mm	SX/DP-S
3841707	840–1220 mm	SX/DP-S
3594639	1000–1240 mm	DPH/DPR

1

2


3 4

Mechanical Steering

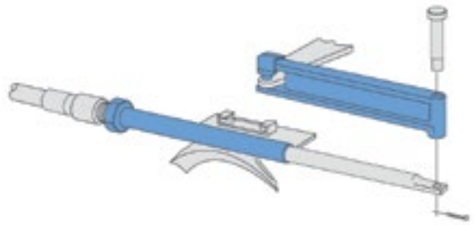
The mechanical steering helms are available in four models, all using a Planetary Gear Design with three satellite gears that rotate on their axis and at the same time rotate around the central helm axis. This design provides an optimum reduction ratio with a minimum of physical effort, increased efficiency and less torque feedback compared to cheaper single pinion gear helms.

No feedback helms

A special patented device allows the helm shaft to lock until turned by the driver, maintaining the boat direction and neutralizing the feedback loads on the steering cable. The mechanism is engaged when the driver applies pressure on the wheel to change direction of the boat.

Image	Part no	Description	
2	3818019	Rear mount planetary helm gear	a)
2	21580930	Rear mount planetary helm gear, No-Feedback	a)
1	3818025	Planetary helm gear for tilt mount	b)
1	3818027	Planetary helm gear, No-Feedback for tilt mount	b)
4	21580825	Bezel kit - for 90° mounting, black	
	3818096	Bezel kit - for 70° mounting, black	
	3883509	Bezel kit - for 90° mounting, white	
3	3883508	Bezel kit - for 70° mounting, white	
1	22299003	Tilt mechanism	

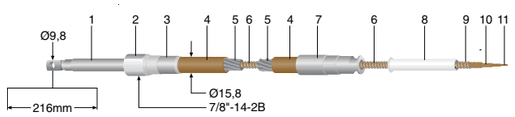
a) Requires a bezel kit for the installation. Has to be ordered separately.
b) Requires the tilt mechanism, which has to be ordered separately.



Steering cable attachment

This steering cable attachment is used to attach the steering cable on DP-E drives without power steering.

Part no
872388



Steering cable

Volvo Penta steering cables are high quality products designed to provide optimum efficient performance, i.e., a minimum of physical effort with a minimum of play.

1. Telescopic sleeve
2. Connection nut
3. End sleeve
4. Protective outer sheathing in brown HD polyethylene
5. Hardened steel wire armature
6. Inner cable
7. End sleeve
8. Protective sleeve in white HD polyethylene
9. Spring steel covering
10. 36 strand steel wire – laid to left and right
11. Core wire

Part no	Cable length, m
3848176	2.00
3848177	2.25
3848178	2.50
3848179	2.75
3848180	3.00
3848181	3.25
3848182	3.50
3848183	3.75
3848184	4.00
3848185	4.25
3848252	4.50
3848253	4.75
3848254	5.00
3848255	5.25
3848347	5.50

Part no	Cable length, m
3848348	5.75
3848349	6.00
3848350	6.25
3848351	6.50
3848352	6.75
3848353	7.00
3840265	7.25
3848355	7.50
3840267	7.75
3848357	8.00
3848358	8.25
3848359	8.50
3848360	8.75
3848517	9.00

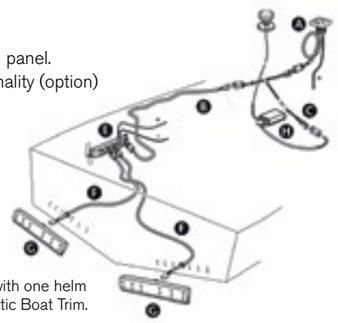
BOAT TRIM SYSTEM

The Boat Trim System (BTS) with its patented interceptor technology gives you perfect control over pitch and heel with rapid response, quicker onto plane, lower fuel consumption and a more comfortable ride. Even better, add the Automatic Boat Trim option which takes over the task of keeping the boat correctly trimmed - automatically!

This trim system is a perfect match for almost all planing boats in the range of 17 to 40+ feet. Outboard, sterndrive or inboard does not matter, it's compact design make for an easy installation. The kits come with a comprehensive installation guide which mean upgrading from conventional trim tabs is a small job.

You get

- Improved fuel efficiency.
- Greater lift and less drag compared with conventional trim tabs.
- Quickly onto the plane.
- Intuitive, user-friendly control panel.
- Automatic Boat Trim functionality (option)



Single installation with one helm station and Automatic Boat Trim.

BTS 300 mm kit, Part no 21914554	
2 Interceptor units, 300	2 x 21914551
1 Control panel	1 x 21809318
1 Control unit	1 x 21546221
2 Cables, 2,5 m	2 x 3817171
1 Cable, 5 m	1 x 874789

BTS 450 mm kit, Part no 21914555	
2 Interceptor units, 450	2 x 21914552
1 Control panel	1 x 21809318
1 Control unit	1 x 21546221
2 Cables, 4 m	2 x 3817172
1 Cable, 9 m	1 x 889551

Automatic Boat Trim kit, Part No. 21561103 ***	
1 GPS receiver	1 x 3847459
1 Attitude control unit	

Ordering and component guide

	Description	Part no	1 helm station					2 helm stations*				
	Mandatory components		2x300	2x450	2x300+ 2x450	4x300	4x450	2x300	2x450	2x300+ 2x450	4x300	4x450
A	Control panel	21809318	1	1	1	1	1	2	2	2	2	2
B	6-pole cable (select length)		1	1	1	1	1	1	1	1	1	1
	5 m	874789										
	7 m	889550										
	9 m	889551										
	11 m	889552										
	13 m	888013										
C	6-pole Y-cable	3588972						1	1	1	1	1
D	6-pole extension cable (select length)							1	1	1	1	1
	1,5 m	3889410										
	3 m	3842733										
	5 m	3842734										
	7 m	3842735										
	9 m	3842736										
	11 m	3842737										
E	Control unit	21546221	1	1	1	1	1	1	1	1	1	1
F	4-pole cable (select length)		2	2	4	4	4	2	2	4	4	4
	2.5 m	3817171										
	4.0 m	3817172										
G	Interceptor unit 300 mm	21914551	2		2	4		2		2	4	
	Interceptor unit 450 mm	21914552		2	2		4		2	2		4
	Optional component											
H	Automatic Boat Trim ***	21561103	1	1	1	1	1	1	1	1	1	1
	Resettable breaker 8A **	966689	2	2	2	2	2	2	2	2	2	2

* **Note!** For each extra helm station (max 4 helm stations possible), add one control panel (A), one 6-pole Y-cable (C) and one 6-pole extension cable (D).

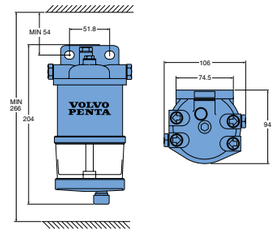
** **Note!** If the boat does not have a separate fuse box accessible, Volvo Penta resettable 8A breaker may be used. 966689 is not ignition proof and must therefore not be used in gasoline engine rooms.

*** **Note!** For the installation one 6-pole Y-cable (C) is always needed. Depending on installation type, there might be a need for a 6-pole extension cable (D). The 6-pole cable on the Attitude control unit (H) is approx. 25 cm.

ENGINE ACCESSORIES

Volvo Penta engines are recognized all over the world as technically sophisticated and reliable marine engines.

Every accessory is a part in a system. They are all designed and developed to work together. All accessories fulfill our tough demands of durability and reliability. They are tailor made designed for easy mounting to engine and drive, eliminating complicated adaptations and tested as carefully as the engine.

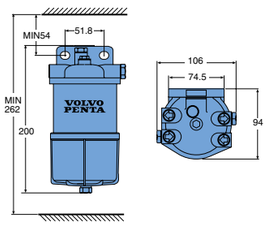


Fuel filter/water separator, diesel engines

Fuel filter/water separator for small diesel engines. The filter is intended for installation between the fuel tank and the engine. In the lower container/sight glass, it is easy to detect whether or not water or other impurities have accumulated. The filter is supplied without connection parts for the fuel lines (see “Fuel line fittings”).

Part no	
877767	a)

a) Transparent bowl. Not in conformity with RCD standard for fire resistance (ISO 10088).



Fuel filter/water separator, diesel engines

Same specification as 877767, but all metal construction.

Part no
877766

Filter element for 877767 and 877766

Part no
3581078

FUEL SUPPLY

A reliable supply of clean fuel to the engine. Nothing is more important for reliability and safety at sea.

Water in Fuel Alarm

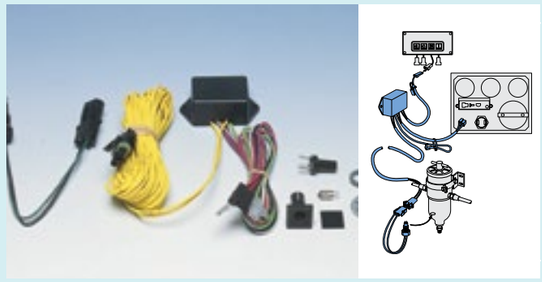
To get an early warning for water in the fuel tank the best position for a water sensor is in the Fuel Filter/Water separator between the tank and the engine. The sensor will detect water in the bowl of the water separator and give the early warning wanted.

Water in Fuel Alarm (D3, D4 and D6)

For D3-D6 engines a new sensor is developed that fits to the fuel filters/water separators 877762 & 887763. The sensor is connected to the EVC system and will give you the alarm in your EVC instrumentation. It also work in parallel with existing engine mounted water in fuel alarm.

The kit fits D3/D4/D6 engines produced 2011 and later (which have paired engine cable harness).For 12 V or 24 V systems.

Part no
21641493

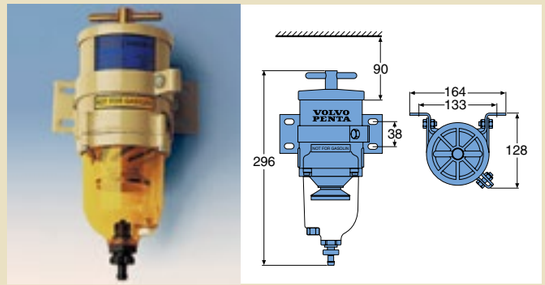


Water in Fuel Alarm (Stand-alone)

When detecting water the system will warn with both a warning lamp and audio signal (buzzer).

Suitable for use in conjunction with fuel filters/water separators 877762, 877769, 877768, 877770, 877763, 877771, 889280. For 12 V or 24 V systems.

Part no
1140724



Fuel filter/water separator, diesel engines

The filter is intended for installation between the fuel tank and engine. Three progressive stages – separation, coagulation and filtration ensure that fuel arrives at the engine free from contamination. The filter is prepared for connection of a water alarm.

The filter is supplied without connectors or union nuts for fuel line connection (see “Fuel line fittings”).

Weight: 2 kg

Flow, max.: 227 l/hour

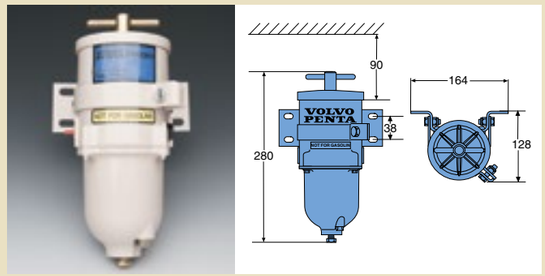
Degree of separation: 10 micron

Initial pressure drop at max. fuel flow, 10 micron filter element: 4.1 kPa

Recommended filter: Replaceable filter element 861014, 3581760

Part no	
877762	a)

a) Transparent bowl. Not in conformity with RCD standard for fire resistance (ISO 10088).



Fuel filter/water separator, diesel engines

Identical to filter 877762, but all metal.

Part no
877763

Filter element for 877762, 877763 and 877764

Part no	Micron
861014	10
3581760	30
1147147	2

Filter element for 877769 and 877768

Part no	Micron
3838852	10
889419	30
889421	2

Fuel filter/water separator, diesel engines

For heavier diesel engines used in demanding environments with inconsistent fuel quality.

The filter is prepared for connection of a water alarm. The filter is supplied with a 10 micron filter element, but without connectors or union nuts for fuel line connection (see “Fuel line fittings”).

Weight: 3 kg

Flow, max.: 341 l/hour

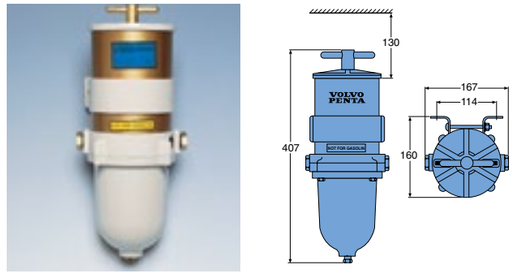
Degree of separation: 10 micron

Initial pressure drop at max. fuel flow, 10 micron filter element: 2.3 kPa

Recommended filter: Replaceable filter element 3838852 and 889419

Part no	
877769	a)

a) Transparent bowl. Not in conformity with RCD standard for fire resistance (ISO 10088).



Fuel filter/water separator, diesel engines

For heavier diesel engines used in demanding environments with inconsistent fuel quality. Three progressive stages – separation, coagulation and filtration ensure that fuel arrives at the engine free from contamination.

All metal filter. Filter is adapted for connecting to water alarm. Complies with US Coast Guard standards for 2.5 minutes fire resistance in open flames. The filter is supplied with a 10 micron filter element, but without connectors or union nuts for fuel line connection (see “Fuel line fittings”).

Weight: 3 kg

Flow, max.: 341 l/hour

Degree of separation: 10 micron

Initial pressure drop at max. fuel flow, 10 micron filter element: 2.3 kPa

Recommended filter: Replaceable filter element 3838852 and 889419

Part no
877768

Fuel filter/water separator, diesel engines

For heavier diesel engines used in demanding environments with inconsistent fuel quality. The filter is intended for installation between the fuel tank and engine. Three-stage filtration – centrifugal separation, coagulation and filtration. Water and impurities are collected in the bowl beneath, from which they can be drained off by means of a drain valve.

All metal construction. Complies with US Coast Guard requirements for fire resistance on exposure to naked flame for 2.5 minutes. Filter is adapted for connecting to water alarm. Filter is supplied with a 10 micron filter element, but without connectors for fuel line connection (see “Fuel line fittings”).

Weight: 5 kg

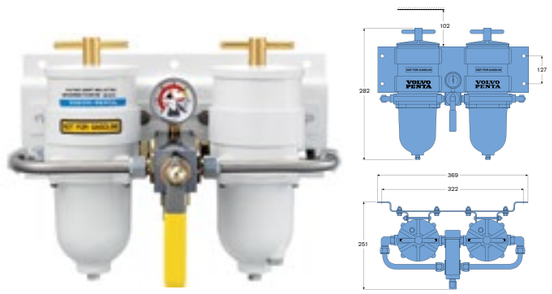
Flow, max: 681 l/hour

Degree of separation: 10 micronw

Initial pressure drop at max. fuel flow, 10 micron filter element: 3.4 kPa

Recommended filter: Replaceable filter element, 3838854 and 889422

Part no
877771



Double fuel filter/water separator, diesel engines

Weight: 7.7 kg

Flow, max.: 454 l/hour

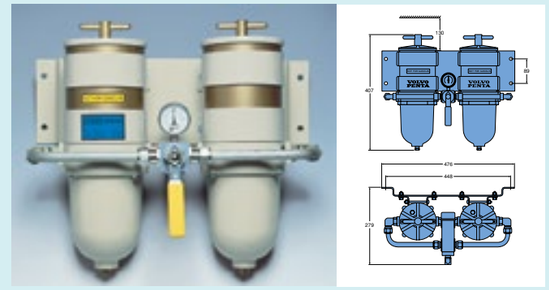
Degree of separation: 10 micron

Initial pressure drop at max. fuel flow, 10 micron filter element: 4.83 kPa

Recommended filter: Replaceable filter element 861014

Fuel port connection 3/4"-16 UNF

Part no
877764



Double fuel filter/water separator, diesel engines

For heavier diesel engines used in demanding environments with inconsistent fuel quality.

All metal double filter with pressure gauge showing the pressure drop. Connections can be made between left hand, right hand or both filters, thus making it possible to change filter elements with the engine running. The filter thereby complies with Classification Association standards for propulsion engine fuel systems as well as the US Coast Guard standards for 2.5 minutes fire resistance in open flames.

Filter is adapted for connecting to water alarm. The filter is supplied with a 10 micron filter element, but without connectors or union nuts for fuel line connection (see “Fuel line fittings”).

Weight: 10.4 kg

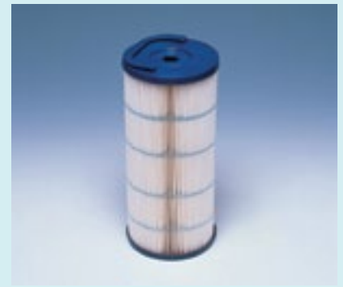
Flow, max.: 682 l/hour

Degree of separation: 10 micron

Initial pressure drop at max. fuel flow, 10 micron filter element: 12.4 kPa

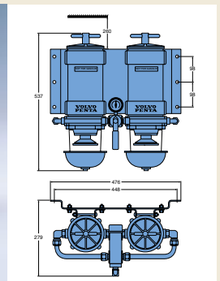
Recommended filter: Replaceable filter element 3838852 and 889419

Part no
877770



Filter element for 877771, 889280 and 889281

Part no	Micron
3838854	10
889422	30
889425	2



Fuel filter/water separator - twin diesel engines

For heavier diesel engines used in demanding environments with inconsistent fuel quality. Twin filter with gauge that indicates pressure drop. Transparent bowls fitted with heat shields. Can be connected to right, left or both filters to allow filter replacement while running.

Complies with classification body requirements for fuel systems for propulsion engines. Also complies with US Coast Guard requirements for fire resistance on exposure to naked flame for 2.5 minutes. The filter is supplied with a 10 micron filter element, but without connectors for fuel line connection (see “Fuel line fittings”).

Weight: 11.3 kg (Metal bowls: 13.6 kg)

Flow, max: 1363 l/hour

Degree of separation: 10 micron

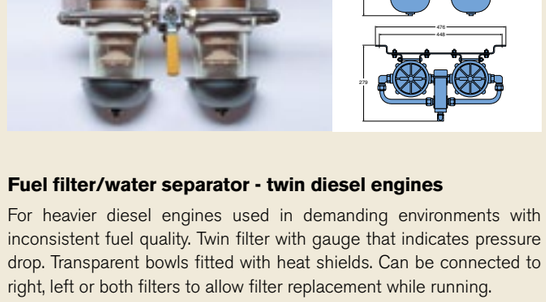
Initial pressure drop at max. fuel flow,

10 micron filter element: 24.1 kPa (Metal bowls: 25.5 kPa)

Recommended filter: Replaceable filter element,

3838854 and 889422

Part no	Description
889280	see through bowl
889281	white metal bowls

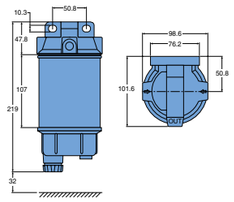


Fuel hose - 3/8"

Fuel hose, fire resistant in accordance with ISO7840-A1 and J1527 USCG type 2. Internal diameter 3/8". Supplied per metre. Recommended stainless steel hose clips, part no. 961664.

The product fulfils the requirements of Recreational Craft Directive 94/25/EC.

Part no	No	Description
861057	7	Fuel hose 3/8"



Extra fuel filter, petrol engines

The filter element is of the disposable spin-on type. The filter is supplied with a 10 micron filter element, but without connectors or union nuts for fuel line connection (see “Fuel line fittings”).

Weight: 0.9 kg

Flow, max: 227 l/hour

Degree of separation: 10 micron

Recommended filter: Replaceable filter element, 857633

The product fulfils the requirements of Recreational Craft Directive 94/25/EC.

Part no
877765

Filter element for 877765

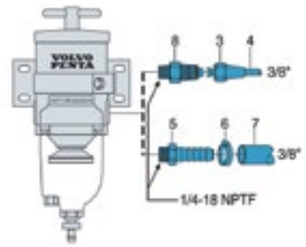
Spin-on disposable filter, 10 micron.

Part no
857633

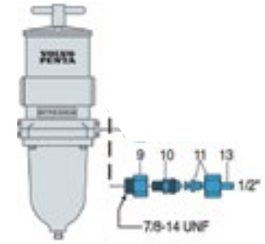
Suction pipes for connection plate

Part no	Length
828341	242 mm
828373	458 mm

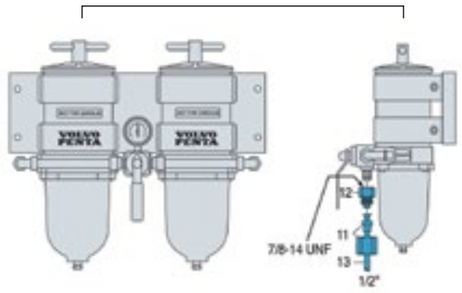
Part no: 877762, 877763



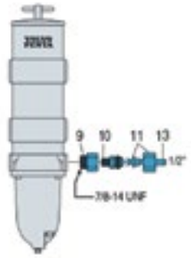
Part no: 877768, 877769



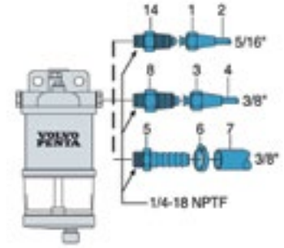
Part no: 877770, 889280, 889281



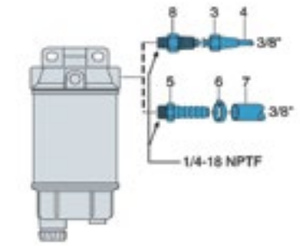
Part no: 877771



Part no: 877766, 877767



Part no: 877765

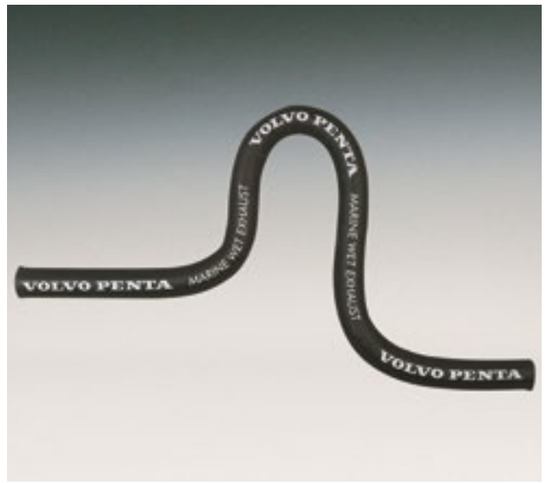


Fuel line fittings

Part no	No	Description
954322	1	Union nut 5/16"
954305	2	Copper pipe 5/16"
954323	3	Union nut 3/8"
1140062	4	Copper pipe 3/8", 25 m
3825000	5	Hose connector
961664	6	Hose clamp
861057	7	Fuel hose 3/8"
954337	8	Connector 3/8"
3825034	9	Adapter fitting
3825512	10	Connector 1/2"
3825513	11	Union nut 1/2"
3825511	12	Adapter fitting
-	13	Copper pipe 1/2", not stocked by Volvo Penta
190962	14	Connector 5/16"

EXHAUST

Complete systems with silencers, hoses, elbows and everything else needed. Perfectly in tune with the respective engine series.



The water-cooled system has a number of advantages:

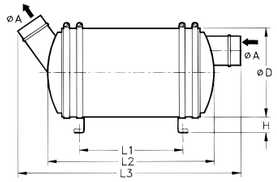
- Low exhaust pipe temperature allows the use of rubber hoses.
- Extremely effective silencing of exhaust noises.
- Compact size and low weight.

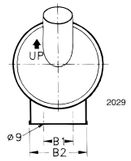
Rubber exhaust hoses

An flexible exhaust hose for marine wet exhaust systems that conforms with ISO13363 type 2 (+580°C) and SAE J 2006 type R2. It's minimized bend radius means easy and quick installation. Reinforced by synthetic textile layers and embedded steel wire helix it has plain and smooth inner surface for minimum exhaust back pressure. Smooth outer surface. Sold per meter.

Part no	Min. bend radius mm	Rec. stainless steel hose clips	Int. Ø, mm	Ext. Ø, mm	
1140664	200	961669	32	41.5	
1140665	285	961671	45	55	
1140670	305	961672	50	61.5	
1140666	310	961673	57	69	
1140671	355	961674	63	75	
888212	455	22274886	76	88	
1140667	535	22274887	89	101	
1140668	610	22274888	102	115	
1140669	760	961678	127	140	b)
1140672	950	961907	152	165	a)
1140673	1200	-	205	217	

a) 3595350
b) 3817828





Silencer, wet exhaust systems

The silencer effectively silences engine exhaust noise with a minimum of back pressure. The silencer also functions as an effective water-lock. Its large capacity for cooling water eliminates the risk of water siphoning back into the engine when stopped. Adjustable mounting brackets make the silencer easy to install.

Material: Reinforced rubber with acid resistant stainless steel end pieces.

Part no	ØA	ØD	B1	B2	H	L1	L2	L3	Hose dia.	
828064	45	165	60	112	30	208	334	440	45 mm	
828837	45	165	60	112	30	208	334	440	45 mm	a)
838327	57	165	60	112	30	408	535	645	57 mm	
842768	89	220	90	140	40	370	500	665	89 mm	
854760	100	218	90	114	40	375	450	500	100 mm	a)

a) Horizontal exhaust exit suitable for installations with limited height.

Elbow coupling, wet exhaust systems

The elbow coupling provides an improved installation and reduces the risk of a kink forming in the exhaust hose.

Material: Stainless steel with pre-formed collar for hose connection.

Part no	Angle, degrees	Ext. Ø, mm
828256	45	45
828255	45	57
843287	45	89
872017	45	100
872024	90	100

Through-hull exhaust fitting

Through-hull exhaust fitting with drip-edge to prevent cooling water from discolouring the side of the hull. With pre-formed collar for hose connection. Supplied complete with hose clips.

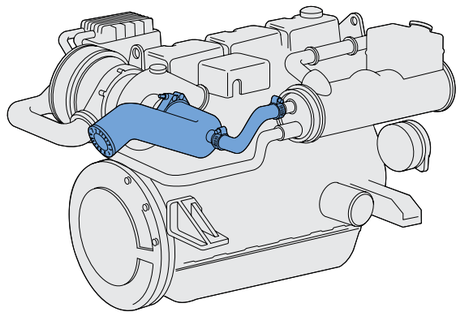
Part no	Material	Ext. Ø, mm
828295	Aluminium	89
854754	Stainless steel	100
833738	Brass	45
831781	Brass	57

Exhaust temperature alarm, wet exhaust systems

The temperature alarm sensor is installed in the exhaust hose and transmits a signal to a warning lamp in the event of excessive exhaust temperatures as a result of water shortage.

Includes: Sensor, cables.

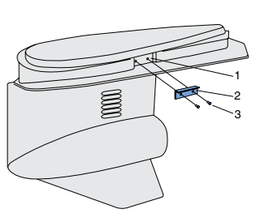
Part no	Fits engine
877773	MD2010-2040, D1-13-D2-75

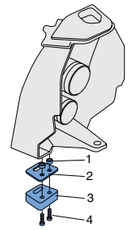


Exhaust riser

An exhaust riser raises the level of the exhaust elbow. This is installed on vessels with engine installations at or below the water line. The riser reduces the risk of siphonage back into the engine via the exhaust system.

Part no	Height
3884165	100 mm/4"
40005141	150 mm/6"
40005142	150 mm/6"
3886142	75 mm/3"
3888846	75 mm/3"
3581031	-
861097	100 mm/4"
861252	90 mm/3.5"
3862907	150 mm/6"





Exhaust cover kit

In order to comply with strict regional noise limitation requirements, Volvo Penta has developed exhaust cover kits for shields and drives. The kits are intended for 3.0 and 4.3 petrol engines with SX drive.

Exhaust cover for shield

Note! Delivered as standard in later versions of 3.0 GS/SX.

Includes: Spacer, cover, screws.
Anode is also needed (not part of the kit).

Part no
3858758

Exhaust cover for drive

Note! To be used only in combination with exhaust cover kit for shield, 3858758.

Includes: Exhaust port, rivets (2 per side), exhaust cover (1 per side).

Part no
3856171

Exhaust block-off kit

The standard exhaust fitting for I/O-engines leads the exhaust through the drive. If a separate silencer is required, then the exhaust port in the transom shield must be sealed.

Includes: Cover plate, fittings.

Part no	Drive
3850889	SX/DP-S

OILS

Volvo Penta oils are tested together with its application to match and interact. The oils contains many protective additives to minimize wear, mop up soot, sludge and metallic particles, neutralize acids, trap water and have preservative properties. They are also adapted to the special demands of low emission engines.

Volvo Penta oils are therefore the best you can give your engine. They ensure lower operating costs through lower fuel consumption. They also extend the life of your engine and improve onboard safety.

CHEMICALS

Leisure craft engines are often subject to greater wear than other engines. The reason is simple: Leisure craft are frequently run intensively for short periods and then laid up for long periods. It is therefore especially important to chose the correct oil, coolant and grease for marine applications. Not just for economic reasons but also to ensure safety at sea.

Petrol engine oil

Specially developed for high performance engines. The special properties of this oil allow it to lubricate the engine even during low temperature starting. The oil combats sludge build-up and gives excellent protection against wear. Particularly suitable for engines that are subject to frequent starting and stopping.

Viscosity: SAE 5W-30

Grade: API SM

Part no	Pack	Quantity
21363429	Plastic bottle	1 Litre
21363430	Plastic container	5 Litre
21363431	Plastic container	20 Litre

Synthetic petrol engine oil

A fully synthetic oil for use all year round. Specially developed for high performance engines. Provides excellent protection against wear under severe running conditions at both high and low extremes of temperatures.

Viscosity: SAE 15W-50/SAE 30

Grade: API SJ, ACEA A3/B3

Part no	Pack	Quantity	
3809429	Plastic bottle	1 Litre	
3809428	Plastic container	5 Litre	a)

a) SAE 15W-50

Engine oil

VDS-3 covers even more stringent requirements on piston cleanliness and bore polish compared to VDS-2, ensuring the durability and reliability of the engines. The high quality of VDS-3 oils allows in certain cases an increase in drain intervals. Fits both diesel and gas engines (check operators manual).

Viscosity: SAE 15W-40

Grade: VDS-3, API CI-4, ACEA E5

Part no	Pack	Quantity
3840002	Plastic bottle	1 Litre
3840003	Plastic cont.	5 Litre
3840004	Plastic cont	20 Litre

Synthetic transmission oil

A fully synthetic oil of the highest quality for drives and transmissions. Specially tested by Volvo Penta in drives and transmissions. Because the oil is synthetic it provides excellent protection against wear at both high and low extremes of temperature. It also withstands very high temperatures without breaking down, and can tolerate high loads without wear.

Viscosity: SAE 75W-90, SAE 75W-140

Grade: API GL-5

Part no	Pack	Quantity	SAE
3809439	Plastic container	5 Litre	75W-140
3809443	Plastic bottle	1 Litre	75W-90
3809442	Plastic container	5 Litre	75W-90
3809441	Metal drum	20 Litre	75W-90

Transmission oil

Lubrication properties protect drive and transmission even under heavy load. Also provides excellent corrosion protection. Withstands high temperatures without breaking down.

Viscosity: SAE 80W-90

Grade: API GL-5

Part no	Pack	Quantity
3809446	Plastic bottle	1 Litre
3809445	Plastic bottle	5 Litre
3809444	Metal drum	20 Litre

1. Hydraulic Oil

Protects against wear at high and low temperatures. Also provides excellent corrosion protection. Particularly suitable for marine use. Does not affect seal materials.

Viscosity: ISO VG 15

Part no	Pack	Quantity
21732287	Plastic bottle	1 Litre

2. Compressor oil

Specially tested in Volvo Penta compressors. Fully synthetic oil that withstands both high and low temperatures. Protects compressor against corrosion.

Viscosity: ISO VG 68

Part no	Pack	Quantity
85108974	Plastic bottle	250 ml

ATF-Oil

Protects against wear, even at high temperatures. Also provides a very good corrosion protection.

Note! Must not be used where API-GL5 is recommended.

ATF-oil, type Dexron III

Part no	Pack	Quantity
85122800	Plastic bottle	1 Litre
1161995	Plastic bottle	5 Litre

Electric oil drain pump

An electric oil drain pump makes essential oil changes considerably easier. The pump is permanently installed, thus eliminating the dirt and inconvenience of manually draining the sump. The pump is self-priming and is also suitable for flushing and as a bilge pump.

Note! Do not use the pump for pumping paraffin or petrol.

Part no	Voltage
843114	12 V
843410	24 V

Universal oil

Moisture repellant electrical contact oil, ideal for the protection of marine electrical equipment.

Part no	Pack	Quantity
85110720	Spray can	200 ml

Propeller shaft grease

Propeller shaft grease is used for conventional packing boxes.

Viscosity: NLGI 3

Part no	Pack	Quantity
3809449	Plastic container	500 g

Grease

Special grease for marine environments – especially suitable for salt water applications. Lubricates, seals and protects against corrosion. Withstands long-term high loading without any deterioration in protective properties.The grease is solid and water-resistant, for use in rubber packing boxes and for the teeth and shafts of folding propellers.

Viscosity: NLGI 2

Part no	Pack	Quantity
828250	Tube	25 g
21347121	Grease gun	400 g

3. Low temperature grease

A special grease recommended for low temperatures and loads. This grease is especially suitable for use on controls, hinges, lock parts and for greasing electric contacts, switches, etc.

Viscosity: NLGI 1

Part no	Pack	Quantity
1161417	Tube	30 g

4. Grease for Waterjet

For Waterjet K22 and K25. The grease can withstand high temperature peaks. Also provides excellent corrosion protection.

Viscosity: NLGI 2

Part no	Pack	Quantity
1161251	Plastic cartridge for grease gun	400 g

1. Liquid sealing agent - master gasket

Replaces conventional paper gaskets and provides an immediate "custom made" gasket. Resistant to petrol, oil, anti-freeze, transmission oils and solvents.

Part no	Pack	Quantity
840879	Syringe applicator	25 ml

2. Sealant - gasket cement

A viscous and slow drying cement intended primarily for gaskets and similar. Dries to a pliable film.

Part no	Pack	Quantity
1161099	Plastic container	125 ml

3. Silicon adhesives - black

A single component black silicon adhesive that cures at room temperature. Suitable for both gluing and sealing operations where a strong elastic seam capable of withstanding temperatures from –65°C to +200°C is required. Excellent adhesion to metal, rubber, glass and most plastics. Prior to application, the surface to be treated must be cleaned and free from moisture. The silicon adhesive is resistant to oils, greases, solvents, etc.

Part no	Pack	Quantity
1161277	Plastic tube	20 g
1161231	Plastic cartridge for grease gun	310 ml

4. Sealant

A graphite based black sealant and rust-proofing agent for pipe joints, flanges, threaded connections on, for example, the exhaust system. Will not damage gasket materials even at high temperatures.

Part no	Pack	Quantity
591247	Metal tin	1 kg

Paints

Volvo Penta paints are the best protection against rust and corrosion for engines, drives and transmissions. The appearance and second hand values of the engine is enhanced if all painting operations are carried out using Volvo Penta paints.

5 6

5. Coolant

Yellow and green coolants may not be mixed.

Part no	Colour	Pack	Quantity
1141645	Green	Plastic bottle	1 L
1141646	Green	Plastic bottle	5 L
21485010	Yellow	Plastic bottle	1 L
21485012	Yellow	Plastic bottle	5 L

6. Coolant - ready-to-use

Protects down to -25°C. Yellow and green coolants may not be mixed.

Part no	Colour	Pack	Quantity
1141674	Green	Plastic bottle	5 L
21485014	Yellow	Plastic bottle	5 L

Coolant system cleaner

High engine temperature can be caused by build-up of deposits in the cooling system which occur, usually, after long running time or the use of mineral rich water. When this occurs the cooling system must be cleaned with the help of a cleaning agent. The cleaner is a citric acid based solvent with the addition of a neutraliser. For green coolant only.

Part no	Pack	Quantity
21467920	Plastic container	500 + 200 g

Locking fluid

Protection fluid for screws and nuts. Permits removal in the normal manner. The protection fluid is effective on lightly oiled surfaces as well as preventing corrosion, leakage and vibration.

Part no	Pack	Quantity
1161053	Bottle	10 ml

Touch-up paint - engine

Part no	Colour	Pack	Quantity, Litres
3808214	Green, gloss	Tin	1.0
3808216	Red	Tin	1.0
3808215	Green, matt	Tin	1.0
21952397	White	Tin	1.0
1141566	Green, gloss	Spray can	0.4
827501	Red	Spray can	0.4
3851221	Dark grey	Spray can	0.4

7 8 9 10 11 12 13 14 15

7–14. Touch-up paint - drive

Part no	Colour	Pack	Quantity, Litres	Image
1141567	Blue-grey	Spray can	0.4	7
1141575	Grey	Spray can	0.4	8
1141560	White	Spray can	0.4	9
1141568	Black, matt	Spray can	0.4	10
3851219	Silver, SX, DP-S	Spray can	0.4	11
827502	Clear varnish	Spray can	0.4	12
889968	Silver + clear varnish, DPH, DPR, SX-A	Spray can, 2 pcs	0.4 + 0.4	13
3851220	Grey + clear varnish, DPX	Spray can, 2 pcs	0.4 + 0.4	14

15. Primer

Part no	Colour	Pack	Quantity, Litres	Image
1141562	Blue-grey, for drive	Spray can	0.4	15

Bilge Oil Boom

The Bilge Oil Boom is ideal for keeping your bilge safe and clean. Simply drop or anchor (with attached rope) in the bilge and the Bilge Oil Boom will efficiently absorb waste oil , fuel and hydraulic fluid. Does not absorb water and will stay afloat even when soaked with oil.

Features:

- Super absorbent and hydrophobic, does not absorb water.
- Absorbs all kinds of petroleum spills.
- Absorbs up to 4.5 l.
- Boom is 380 x 130mm.
- 100% polypropylene absorbent surrounded by spunbond, polypropylene sock and nylon netting.

Part no
21699860

Oil & Water Sorbent Pads

The Oil & Water Sorbent Pads can be used for all engine and drive-related spills and leaks. Absorbs petroleum products, cooling liquid, water etc. You can even use it to wipe off the bilge after the work is done.

Features:

- Absorbs up to 0.7 l per pad.
- 400 x 500 x 4.7 mm
- Sold in a roll of 4 pads.
- Made from recycled polypropylene.

Part no
21699859

COOLING SYSTEM

The cooling system is an extremely important part of the engine assembly. A correct working temperature contributes to a longer operational lifespan of the engine and improved fuel economy. It is also important from a safety aspect. With a correctly dimensioned and correctly installed cooling system, overheating of the engine, unnecessary stoppages and expensive repairs due to engine failure, can be avoided.

COOLING SYSTEMS CAN BE OF TWO DIFFERENT TYPES:

Sea water cooled (direct cooling), where sea water is directly pumped into the engine's cooling system and subsequently discharged via the exhaust system (wet exhaust systems) or via a separate discharge point for cooling water (for dry exhaust systems).

Fresh water cooled (indirect cooling) where the engine has its own closed loop cooling system similar to that of a motor car. The temperature of the engine coolant is reduced by being passed through a heat exchanger which is itself cooled by a supply of continuously pumped sea water. The sea water is discharged either via the exhaust, when used with a wet exhaust system, or via a separate outlet, when used with a dry exhaust system.

Freshwater cooling has a number of advantages compared to sea water cooling, these being:

- Better comfort, i.e. availability of domestic hot water and onboard heating. More extensive usage.
- The anti-freeze and anti-corrosion agents contained within the coolant permit all year running. Should it be required to totally decommission the engine, the coolant channels can simply be filled with inhibitors.
- Reduced engine wear as a result of higher running temperatures.
- Extended engine life due to better corrosion protection.

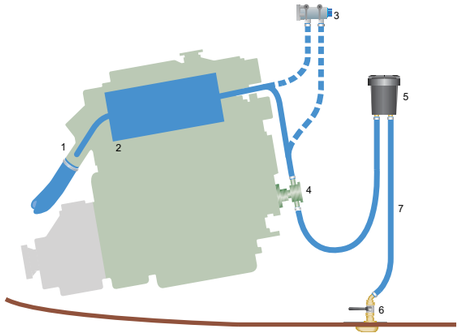
It is a relatively simple operation to fit a fresh water cooling system to a sea water cooled engine.

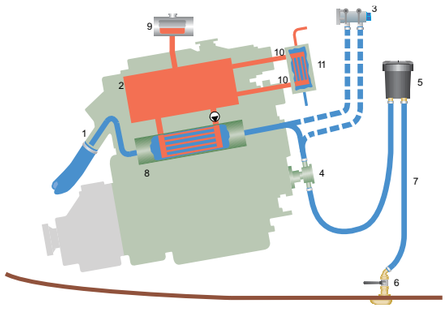
SEA WATER COOLING

1. Exhaust bend, wet type
2. Engine cooling galleries
3. Vacuum valve
4. Sea water pump
5. Sea water filter
6. Cooling water intake
7. Hose

FRESH WATER COOLING

1. Exhaust bend, wet type
2. Engine cooling galleries
3. Vacuum valve
4. Sea water pump
5. Sea water filter
6. Cooling water intake
7. Hose
8. Heat exchanger
9. Expansion tank
10. Hot water outlet
11. Hot water heater





Vacuum valve

For vessels with an engine installation at or below the water line a vacuum valve should be installed. The valve prevents siphonage occurring through the seawater intake, resulting in water ingress to the engine.

Part no	Hose dia.
21662701	16 mm
21662702	19 mm
21662703	22 mm
21662704	25 mm

Seawater filter 32 mm

The seawater filter should be installed in the cooling system's suction line above the water line. The filter effectively separates any impurities from the seawater and contributes to extending the service life of the engine. The filter element is easy to clean.

Material: Plastic container and filter

Connection: In: 32 mm, Out: 32 mm

Height: 210 mm incl. hose connectors

Width: 130 mm

Depth: 130 mm

Rec. rubber hose: 1140664 (32 mm)

Part no
3583840

Seawater filter, heavy duty 50 mm

The filter has a large capacity suitable for use in extremely dirty or muddy waters. The filter element is easily cleaned and is covered with a transparent cover for ease of inspection.

Material: Plastic container and filter

Hose connection: Hose int. dia 50 mm

Height: 255 mm

Width: 220 mm

Depth: 200 mm

Volume: Approx. 2,7 litres

Rec. rubber hose: Part no. 1140670

Part no
21655254

Seawater filter, heavy duty 63 mm

The filter has a large capacity suitable for use in extremely dirty or muddy waters. The filter element is easily cleaned and is covered with a transparent cover for ease of inspection.

Material: Bronze casting with clear sight glass

Volume: Approx 5 liters

Hose connection: Hose int. dia 63 mm

Rec. rubber hose: Part no. 1140671

The kit contains: Filter, mounting brackets

Part no	Description
21298782	Seawater filter
21298806	Hose connection
961673	Hose clamp

Sea water filter cover

The transparent cover fits all seawater filters for D4 and D6 engines.

Part no
21400685

Hose adapters

For connection of seawater filter to cooling hoses of other diameters, cut adapter if necessary. Hose clamps for connection to filter included. Hose clamps for cooling hoses have to be ordered separately. One or two adapters are required for an installation.

Part no	Inner dia.	Outer dia.	Length
21951974	50 mm	32/38 mm	142/99 mm
21951975	32 mm	16/19 mm	87/62 mm

Expansion tank

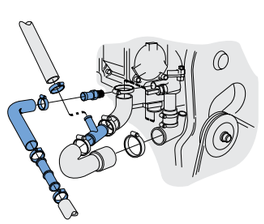
A separate expansion tank for engine coolant can be installed in an easily accessible position and thereby make checking and filling of the system considerably easier. The tank is manufactured of a semi-transparent material to enable the checking of the coolant level.

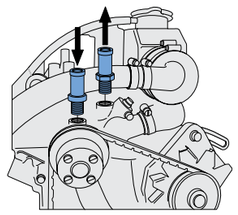
Material: Plastic

Installation: Max 1.2 metres above the highest point of the engine.

Includes: Tank, pressure cap, fittings for installation.

Part no	Fits engine
3581427	2010-2040/MD22
3581297	MD31-42
3886264	D4-D6





Hot water outlet

A hot water connection is made to the engine cooling system which allows the hot coolant water to circulate through a water heater. The hot coolant heats up the water contained in the water heater. This then provides a domestic hot water supply.

Recommended hose for engine/water heater:
Hose, int. diameter 16 mm, part no. 952969

Recommended stainless steel hose clips: part no. 961665

Recommended hose for domestic supply:
Hose, int. diameter 12.7 mm, part no. 952968

Recommended stainless steel hose clips: part no. 961665

Part no	Fits engine	
861523	MD2010-20A, MD2030-40, D2-55	
3856266	8.1Gi, DPX375, DPX420	a)
3862101	4.3GL, 5.0GL, 5.7GXi	b)
860706	AD31/41, KAD300/43/44, KAMD300/43, TAMD31/31S/41	c)
3581632	AMD22, TMD22, MD22	
3583734	KAD32	
3862102	8.1Gi, 8.1GXi	d)
40005450	4.3GL/GXi, 5.0GL/GXi, 5.7Gi/GiE/GXiE/GXi	
21177136	D9, D11	
3818029	8.1GiE/Gi/GXiE/GXi	
40005445	3.0GLP-J	
40005449	4.3GL/GXi, 5.0GL/GXiE/GXi, 5.7Gi/GiE/GXiE/GXi	
21145832	D4, D6	
21527832	4.3GL/GXiE/GXi, 5.0GXiC/GXiCE/GXiE/GXi, 5.7Gi/ GiC/GiCE/GiE/GXi-CE/GXiE/GXi	
3588682	D3-130-190A	
3841173	D1-13-D2-40	

a) (For model year EF and later).8.1Gi/DP-S: Only for sea water cooled engine.

b) Only for raw water cooled engine. 4.3GL - A, 4.3GXi -A, B, BF, 5.0GL - A, B, 5.0GXi - A, B, BF, 5.7GL - A, B, 5.7Gi - A, B, BF, 5.7GXi - B, C, CF.

c) Also for KAD/KAMD42 engines

d) Only for raw water cooled engines. 8.1Gi - B, BF, 8.1GSi, 8.1GXi - A, AF, DPX375 - B, BF, DPX420 - B, BF.

Freshwater cooling kit

Part no	Fits engine	
3851839	7.4Gi (HU, NC, LK), 7.4GSi (HU, NC, LK, BY, WT), 8.2GSi (NC, LK, BY, WT), DPX385, DPX415 (NC, LK, BY, WT, EF)	a)
3857597	7.4Gi (BY, WT)	
3860972	8.1Gi - B, BF, 8.1GSi, 8.1GXi - A, AF	
3862181	4.3Gi (EF),4.3GL - A, 4.3GXi - A, B, BF, 5.0Gi, GSi, 5.7Gi, GSi (EF), 5.7GXi (EF), 5.0GL - A, B, 5.0GXi - A, B, BF, 5.7GL - A, B, 5.7Gi - A, B, BF, 5.7GXi - B, C, CF	
3589848	4.3GL, GS, 5.0GL, GS, 5.7GL, GS (MD, HU, NC, LK, BY, WT, EF), 4.3GL (EF), 5.0GL (EF), 4.3Gi, 5.0Gi, GSi, 5.7Gi, GSi (MD, HU, NC, LK, BY, WT), 4.3GL - A, 5.0GL - A, B, 5.7GL - A, B	
40005807	4.3GL-J, 5.0GL-J	
40005446	4.3GXiE-M, 4.3GXi-J, 5.0GXiE-M, 5.0GXi-J, 5.7Gi-300-J, 5.7GXiE-300-M, 5.7GXiE-M, 5.7GXi-J	
3842763	8.1GiE-J, 8.1GiE-JF, 8.1Gi-J, 8.1GXiE-J, 8.1GXiE-JF, 8.1GXiE-M, 8.1GXi-J, 8.1GXi-JF	
21403116	5.0 GXiC-J, 5.0 GXiC-JF, 5.7 GiC-300-J, 5.7 GiC-300-JF, 5.7 GXiC-J, 5.7 GXiC-JF, 5.7 GiCE-300-J, 5.7 GiCE-300-JF, 5.7 GXiCE-J, 5.7 GXiCE-JF, 5.7 GXiCE-300-M, 5.7 GXiCE-300-MF, 5.7 GXiCE-M, 5.7 GXiCE-MF	
21403117	8.1 GiC-400-J, 8.1 GiC-400-JF, 8.1 GiC-400-Q, 8.1 GiCE-400-J, 8.1 GiCE-400-JF, 8.1 GiCE-400-M, 8.1 GiCE-400-MF, 8.1 GiCE-400-P, 8.1 GiCE-400-P.	

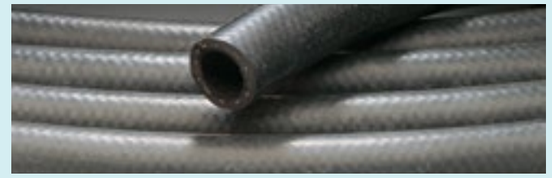
a) Increases the total length of the engine by approx. 15 mm.

Cooling water intake

The cooling water intake is a through-hull fitting with strainer, installed through the bottom of the hull. For motor boats the strainer should be directed forward. Once under way, the seawater is forced up into the system. However, for sailing boats, the strainer should be directed towards the rear of the boat in order to prevent seawater being forced into the system when under sail with the engine shut down. When a motor boat is being towed, the shut-off valve must be closed.

Includes: Through-hull fitting with strainer, fittings for pipe connection, shut-off valve, hose clips.

Part no	Internal hose diameter
861495	19 mm
861496	19 mm
1140129	32 mm
3587668	38 mm
1140127	50 mm



Rubber hoses

Volvo Penta rubber hoses are specifically designed for use with the engine's cooling system and are designed to withstand both suction and pressure.

Part no	Min. bend radius mm	Rec. stainless steel hose clips	Int. Ø, mm	Ext. Ø, mm
952968		961665	12.7	20.6
952969		961665	16	23.8
952970		961666	19	27
952971		961667	22	30.2
952972		853548	25.4	33.3
1140664	200	961669	32	41.5
1140670	305	961672	50	61.5
1140671	355	961674	63	75

NEUTRA-SALT

Neutra-Salt engine flushing kit

Designed for both freshwater- and saltwater-cooled engines that have an engine-driven sea-water pump.

The Neutra-Salt Engine Flushing System is available for installation on all inboards and sterndrives. This system is designed for both freshwater- and saltwater-cooled engines that have an engine-driven sea-water pump. As a saltwater boater, you are continually challenged by the corrosive effects of salt -both inside and outside your engine - particularly when the boat is sitting unused in the water. Now, with the installation and use of the Neutra-Salt Engine Flushing System, you have an effective and simple solution to combat internal corrosion and help extend the life of your engine.

Benefits of our flushing system:

- Flushes your engine while the boat is in the water -there is no need to trailer your boat or hook up to a freshwater supply in order to flush and protect your engine.
- Helps protect your engine from saltwater damage.
- Helps prevent corrosion by removing salt deposits, leaving a protective corrosion inhibitor on all metal surfaces, including: Power-steering and oil cooler, engine block, exhaust manifold and risers, thermostat housing, circulating and raw-water pumps.
- Installs easily and operates smoothly.

Kit includes:

0.95 litre of Neutra-Salt motor flushing concentrate, 2.85 litre reservoir with mounting bracket, eight feet of hose, brass sea-water inlet tee fitting, connecting hose for power-steering cooler, hose clamps, rocker switch, “Flush” switch, wiring harness with fuses, and solenoid.

How our flushing system works:

1. To operate, simply engage the “Flush” switch by pushing and holding the dash-mounted switch for 45 seconds while running the engine at idle speed, making sure the engine has an adequate supply of sea water.
2. Once the Flush switch is engaged, the Neutra-Salt concentrate solution will be injected into the cooling system, leaving a corrosion-inhibiting coating on all metal surfaces, thereby neutralizing the salinity of incoming seawater.
3. Before disengaging the Flush switch, you must turn off the engine. For best results, use the Neutra-Salt Engine Flushing System after every trip outing. Boat owners will typically get 10 to 15 flushes before a refill is needed.

Our exclusive Neutra-Salt Concentrate offers many benefits:

It flushes motors, dissolves salt and salt deposits, prevents rust and corrosion (includes a corrosion inhibitor which leaves a protective coating on all metal surfaces), extends the life of metal surfaces exposed to saltwater, and removes salt from engines, fishing equipment, scuba gear, boats, trailers, etc.

Part no	Description
21733731	Kit for engine with 1" or 1 1/4" water inlet hose

Neutra-Salt Concentrate

Our exclusive Neutra-Salt Concentrate offers many benefits:

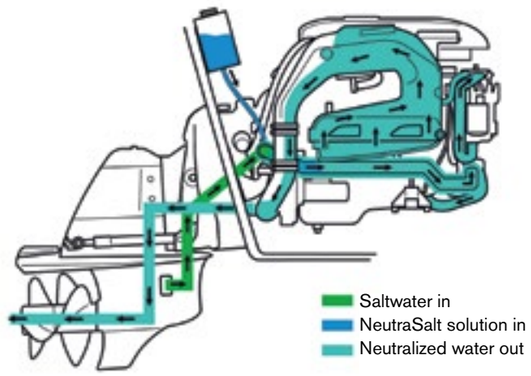
Flushes motors.

Dissolves salt and salt deposits.

Prevents rust and corrosion (includes a corrosion inhibitor which leaves a protective coating on all metal surfaces).

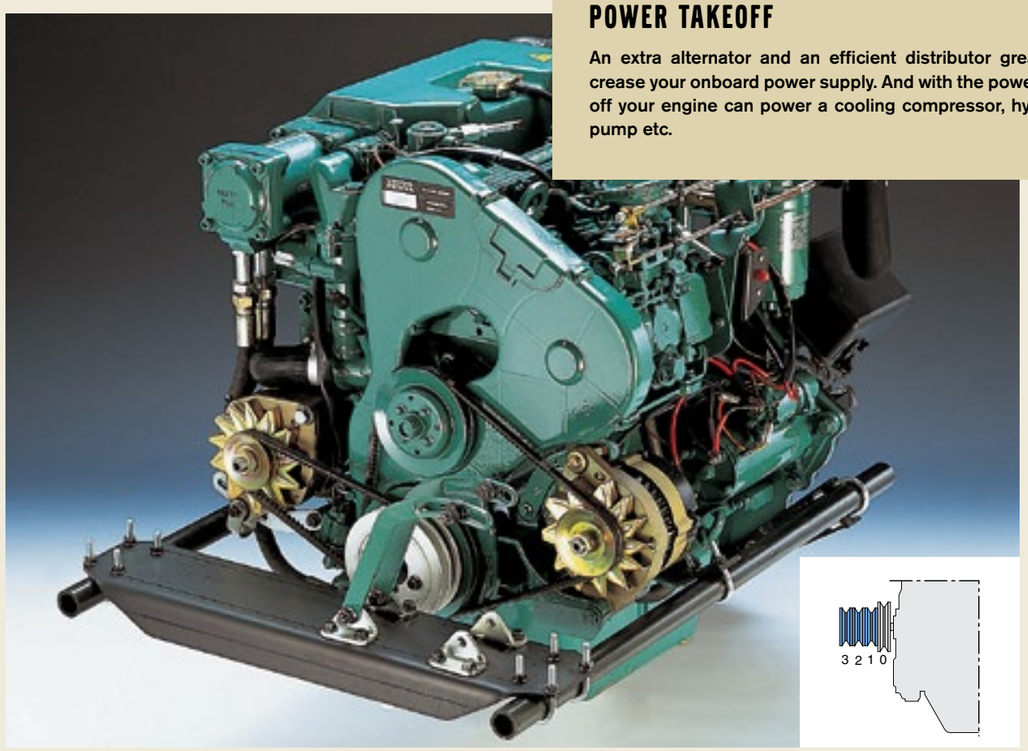
Extends the life of metal surfaces exposed to saltwater, and removes salt from engines, fishing equipment, scuba gear, boats, trailers, etc.

Part no	Quantity
21687793	Quart/0.95 l
21687796	Gallon/3.8 l



POWER TAKEOFF

An extra alternator and an efficient distributor greatly increase your onboard power supply. And with the power take-off your engine can power a cooling compressor, hydraulic pump etc.



Universal bracket

The front mounted universal bracket enables installation of extra equipment such as cooling compressor or hydraulic pump. The kit includes bracket and fittings.

Part no	Fits engines	
3584501	D4, D6	
3581049	MD2010A–D, MD2020A–D, MD2030A–D	a)
3583586	MD2040A, MD2040B, MD2040C, MD2040D, TAMD22, TMD22, MD22, D2-55 A, D2-55 B, D2-55 C, D2-55 D, D2-55 E, D2-55F, D2-75 A, D2-75 B, D2-75 C, D2-75F	b)
3884549	D1-20 A, D1-20 B, D1-20F, D1-30 A, D1-30 B, D1-30F	
3884550	D2-40 A, D2-40 B, D2-40F	
3809865	D3	

a) Pulley and drive belt ordered separately.For engines with S-drives, see information in selection charts.

b) Pulley and drive belt ordered separately. Adapter kit, 3583805, needed with S-drive installations.

Extra pulleys

Auxiliary equipment driven by the drive belt on the crankshaft of the engine increase the load on the crankshaft. It is thus important that the axial location of the pulley on the crankshaft and the location of the equipment in relation to the crankshaft are suited to the extra power requirements of the extra equipment. Maximum power supplied depends on the alignment of the belt, the belt type and the engine type.

Part no	No. of grooves/ pulley	Outer mm	V-belt groove	Length, mm
861157	3	165	HC50	90
3809925	3	165	HC50	90
3809926	1	165	PK6	90
3581048	1	120	HC38	19
3581053	1	120	HC50	19

ELECTRICAL SUPPLY

Today's boats are equipped with more and more electrically powered accessories for both comfort and safety.

Power for lighting, radio transmitters, TV, stereo equipment, fans, heating, etc., drain battery power. As the charging of batteries takes a relatively long time, an extra charge alternator and an extra battery are good investments.

Mounting kit, excluding alternator

Part no	Capacity	Fits engine	Note
3581630	12V/60A alt. 24V/40A	KAD300, KAD32, KAD43, KAD44, KAMD300, KAMD43	Alternator 12V/60A: 873770 Alternator 24V/40A: 872927
3583573	12V/60A	D2-55A, D2-75A	Only for D2-55/D2-75 generation A. Also order pulley kit 3583468 and cable kit 3583574 Alternator: 873770
3583573	24V/40A	D2-55A, D2-75A	Only for D2-55/D2-75 generation A. Also order pulley kit 3583468 and cable kit 3583575 Alternator: 872927
21384685	12V/115A alt. 24V/80A	D2-55, D2-75	Not for D2-55/D2-75 generation A, Alternator 12V/115A: 3840181 Alternator 24V/80A: 3840183
21281679	24V/110A	D2-55, D2-75	Used with Mastervolt alternator, not stocked by Volvo Penta
3884494	12V/60A alt. 24V/40A	D1-20	Also order cable kit 3583574, Alternator: 873770 alt. 872927
3884493	12V/60A alt. 24V/40A	D1-30, D2-40	Also order cable kit 3583574, Alternator: 873770 alt. 872927
21268949	12V/130A, 24V/75A, 24V/110A	D3	Used with Mastervolt alternator, not stocked by Volvo Penta
3889549	12V/115A alt. 24V/80A	D4, D6	Can not be combined with servo steering. Alternator 12V/115A: 3840181 Alternator 24V/80A: 3840183

Alternator kit, including alternator

Part no	Capacity	Fits engine	Note
828944	12V/60A	2001, 2002, 2003, 2003T	
3581045	12V/60A	TAMD22, TMD22	Can not be combined with servo steering

Alternator

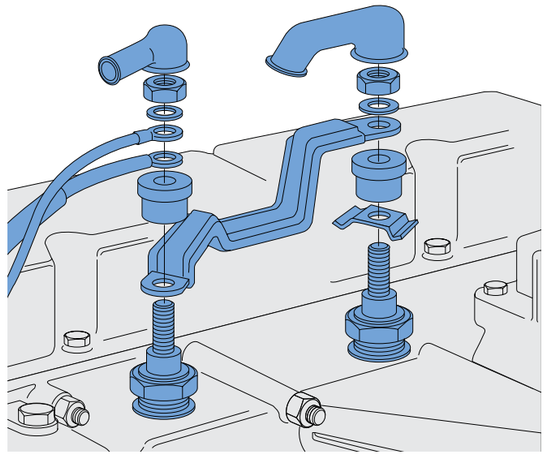
Part no	Capacity	Fits engine
873770	12V/60A	D1-20, D1-30, D2-40, D2-55A, D2-75A
872927	24V/40A	D1-20, D1-30, D2-40, D2-55A, D2-75A
3840181	12V/115A	D2-55, D2-75, D4, D6
3840183	24V/80A	D2-55, D2-75, D4, D6

Charge distributor

The charge distributors are specially adapted for Volvo Penta alternators. Two independent battery circuits can be charged at the same time. The starter motor battery will always be charged, even when onboard power consumption has been great and the second battery is flat.

For alternators12-24 V/50-60 A. Equipped with sensor for directly monitoring the voltage of the battery in use.

Part no	Description
873120	6-50 V/ Max 70 A
3840597	6-50 V/ Max 160 A
3589487	12 V/Max 200 A



Air pre-heater kit

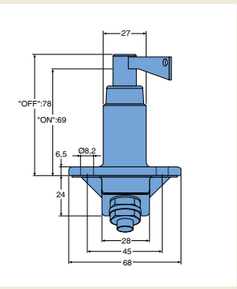
For engines starting in low ambient temperatures.

The kit contains: 2 glow plugs that are installed in the intake pipe. The glow plugs are activated with the ignition key via a relay to warm up the intake air.

Warning! Never use start spray/gas on engines equipped with glow plugs.

Part no
874117

1



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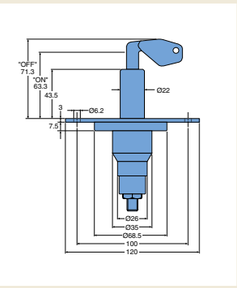


Main switch

Single pole switch in corrosion resistant material for marine use. With removable switch control. Breaks the power circuit for all electrical equipment and is thereby particularly useful in terms of comfort, safety and theft.

Image	Part no	Cont. load	Max load	Working load
1	1140319	150 A	1000 A for 5 s	450 A for 5.5 min
2	3987034	300 A	3000 A for 5 s	-

Suppressor

Part no
1140072

PROPELLER SHAFT COUPLING

The Volvo Penta two-piece rigid propeller shaft coupling is designed to make installation much easier and less time consuming. It requires no costly machining and thanks to the two-piece conic design, the coupling is perfectly centred onto the propeller shaft. This is essential for minimal vibration, low noise and a better boating experience.

No machining required

No costly machining for tapering and keyway-cutting is required. Just cut the propeller shaft to the correct length and fit the coupling cone. Secure it to the coupling flange with the bolts provided and the coupling is complete. The shaft coupling provides a high torsional hold without causing shaft damage.

Perfect central alignment

The two-piece conic design gives the coupling perfect central alignment properties and also provides an absolute distortion free coupling fit. Altogether this makes it easier to achieve a correctly aligned driveline, essential for minimal vibration and low noise.

FEATURES AND BENEFITS:

- Simplified installation and alignment
- Less vibration and noise
- No machining required
- Two-piece conic design
- Perfect central alignment
- High torsional hold without shaft damage
- Compact dimensions, low weight
- Virtually maintenance free
- Easy to disconnect propeller shaft, without re-adjustment
- Integrated counterhold
- Better onboard comfort

Component guide

The Volvo Penta two-piece rigid propeller shaft coupling is delivered complete with bolts, nuts, washers and installation instructions.

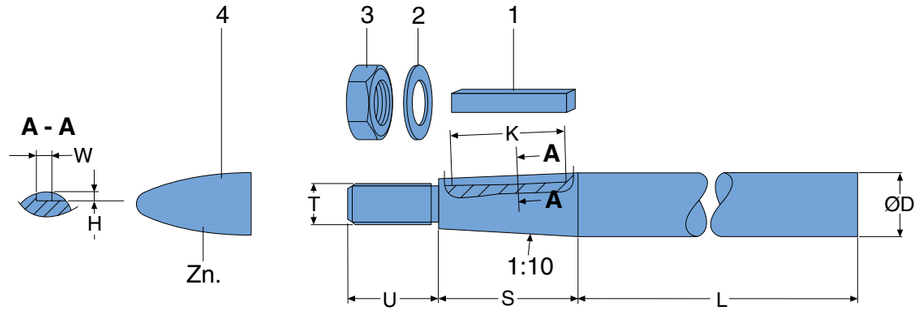
Engine	Gearbox	Part no. coupling for shaft 25 mm*	Part no. coupling for shaft 30 mm*	Part no. coupling for shaft 35 mm*	Part no. coupling for shaft 40 mm*
D1	MS10, MS15	21827365	21827366		
D2-40	MS10, MS15		21827366		
D2-55 / D2-75	MS25		21827366		
D2-55 / D2-75	HS25		21820009	21820010	21820011
D3, D4, D6	HS25, HS45, HS63				21820011

* Requiered shaft tolerance: h9 (+0.0 –0.052)

Dimensions

The shaft coupling is made from high grade 1018 steel (E 235 i ISO) with zinc-nickel coating and sealer. With its compact design the shaft coupling is also perfect for installations where space is limited. Suitable if you want to upgrade your boat driveline.

Part no. coupling	L mm (inch)	D mm (inch)	Weight kg (lb)
21827365	63 (2.48)	102 (4.02)	3,1 (6.8)
21827366	63 (2.48)	102 (4.02)	3,0 (6.6)
21820009	63 (2.48)	127 (5.00)	4,9 (10.8)
21820010	67 (2.64)	127 (5.00)	4,8 (10.6)
21820011	67 (2.64)	127 (5.00)	4,7 (10.4)



Complete propeller shaft

Supplied with washer, nut and wedge according to ISO Standard. Material SIS 2324. Propeller shaft tolerance h9 (+0.0–0.052).

Part no	1	2	3	4 [1)]	D	K	L	S	T	U	W
873476	873474	873475	873473	873411	25	45	908	55	M16	35	6
873477	873474	873475	873473	873411	25	45	1500	55	M16	35	6
873478	873474	873475	873473	873411	25	45	2000	55	M16	35	6
873479	873474	873475	873473	873411	25	45	2500	55	M16	35	6
873489	873487	873488	873486	873412	30	63	1500	75	M20	38	8
873490	873487	873488	873486	873412	30	63	2000	75	M20	38	8
873491	873487	873488	873486	873412	30	63	2500	75	M20	38	8
873498	873496	873497	873495	873413	35	70	1500	85	M24	41	10
873499	873496	873497	873495	873413	35	70	2000	85	M24	41	10
873500	873496	873497	873495	873413	35	70	2500	85	M24	41	10
873507	873505	873506	873495	873413	40	80	1500	95	M24	41	12
873508	873505	873506	873495	873413	40	80	2000	95	M24	41	12
873509	873505	873506	873495	873413	40	80	2500	95	M24	41	12
873515	873513	873514	873512	873415	45	90	1500	105	M30	46	14
873516	873513	873514	873512	873415	45	90	2000	105	M30	46	14

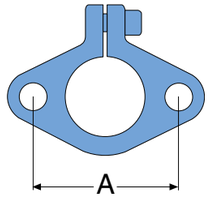
1) Ordered separately.

Shaft sleeve

The shaft sleeve is adapted for use with Volvo Penta's rubber packing box. The sleeve is threaded 200 mm at one end in order to fit to Volvo Penta's stern bearings.

Part no	Length, mm	Shaft Ø, mm	Ext. Ø, mm	
1140026	1000	25	42	
1140027	1500	25	42	
827893	750	30	48	
1140028	1000	30	48	
1140029	1500	30	48	
1140030	750	35	54	
1140031	1000	35	54	
1140032	1500	35	54	
828205	1500	40	60	
828130	1500	40	60	a)

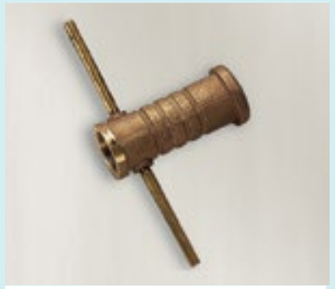
a) Includes water lubricated rubber bearing.

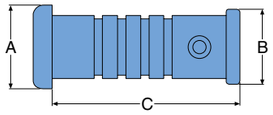


Clamp attachment

For attaching shaft sleeve.

Part no	A, mm	Shaft sleeve, mm	Shaft Ø, mm
828316	78	42	25
828317	78	48	30
828318	96	54	35
828319	96	60	40

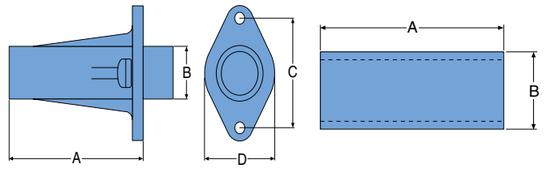




Stern bearing for plastic bonding

Stern bearing with replaceable water-lubricated rubber bearing. Ribbed surface for secure bonding.

Part no	A, mm	B, mm	C, mm	Shaft Ø, mm
827885	56	52	120	25
827886	64	60	155	30
827887	70	66	168	35



Stern bearing for bolting

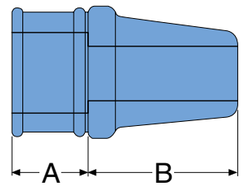
Stern bearing for bolting into wooden or fibre glass hulls. Replaceable water-lubricated rubber bearing. Attached with M8 bolts.

Part no	A, mm	B, mm	C, mm	D, mm	Shaft Ø, mm
827780	113	52	96	65	25
827781	140	58	100	73	30
827782	154	66	108	77	35
828162	154	70	118	80	40
828188	180	74	126	88	45

Rubber bearing

Water-lubricated rubber bearing for stern and support bearings.

Part no	A, mm	B, mm	Shaft Ø, mm
812914	100	38	25
812916	127	44	30
827175	140	48	35
828131	160	54	40

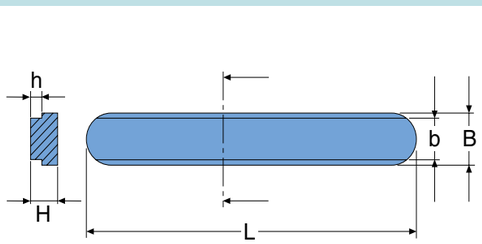


Rubber packing box

Moulded packing box for effective lubrication/sealing. Simple, time saving installation and compact size. Minimal maintenance work – grease every 200 hours or once a year. The packing box is specifically dimensioned for Volvo Penta propeller shafts and sleeves. For effective lubrication it is essential that the packing box bearings are water-lubricated at all speeds. Supplied complete with installation tools and grease tube.

1) Diameter tolerance +0.5 −0.3 mm. The distance between bearing points must not exceed 1500 mm.

Part no	A, mm	B, mm	Shaft Ø, mm	Ext. dia. shaft sleeve mm [1]
828254	36	66	25	42
828422	36	72	30	48
828526	36	82	35	54
828527	36	82	40	60
3819722	36	92	45	64
3819723	36	92	50	70
3819724	36	66	1"	1 3/4"
3819725	36	75	1 1/4"	2"
3819726	36	82	1 1/2"	2 1/4"
3819727	36	92	1 3/4"	2 1/2"
3819728	36	92	2"	2 3/4"



Key for older shafts

A new key is now available for older types of shaft with a 10 mm key slot to make them suitable for new ISO standard bronze propellers.

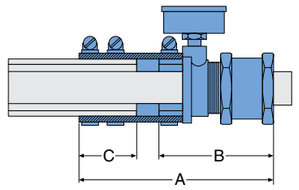
Part no	b, mm	B, mm	h, mm	H, mm	L, mm	Shaft Ø, mm
3580804	8	10	3.5+0.1	6+0.1	58	30
3580805	10	12	3+0.1	6+0.1	80	40

Lock washer for propeller shaft nuts

Note: V9338 = Week 38, year 1993.

Part no	Shaft Ø, mm	
873475	25	a)
828383	25, 30	b)
873488	30	a)

a) Lock washer for propeller shafts manufactured after V9338.
b) Lock washer for propeller shafts manufactured before V9338.



Packing box

Conventional and effective propeller shaft lubrication/sealing. Supplied complete with hose and hose clips. A greaser 827184 can be connected (included with the 40 and 45 mm packing boxes). Recommended grease, part no. 1141644.

Part no	A, mm	B, mm	C, mm	Shaft Ø, mm	
859012	150	102	48	25	
859013	165	117	48	30	
859014	180	132	48	35	
859016	230	160	68	40	
859017	245	170	72	45	a)

a) Greaser and hose included.

Greaser

Separate greaser for simple filling of packing boxes. Can be connected to Volvo Penta conventional packing boxes (included with 40 and 45 mm packing boxes).

Part no
827184

Greaser hose

Length 1 m. Fits to greaser 827184 (included with 40 and 45 mm packing boxes).
Grease: 3809449

Part no
833842

Trolling valve

For installation on the hydraulically operated reverse gear units. Permits a lower speed than is otherwise possible, for example when sport fishing. The trolling valve reduces the propeller speed at a given engine speed. In trolling mode the oil pressure in the discs is reduced enough to permit controlled slip in the disc assembly of the reverse gear unit. The trolling valve is able to reduce propeller speed by up to 80%. It cannot be used with electrically operated reverse gear units.

Note! The engine speed must not exceed 1200 rpm in trolling mode, to avoid overheating of the discs.

Trolling valve kit

For HS25.

Part no
3583486

Trolling valve kit

For HS45, HS63.

Part no
3583485

Active Corrosion Protection

The Active Corrosion Protection helps prevent galvanic corrosion from attacking the metal parts of your drive. This system complements the existing sacrificial anodes and is not intended to replace those. The Active Corrosion Protection is recommended for fiberglass boats that are used in saltwater with varying degrees of corrosiveness, or where extra protection against corrosion is needed. An additional kit is required for installation on a twin engine boat.

Part no	Drive
22037078	IPS-A/B/C/D, IPS2-A

Active Corrosion Protection System

The Active Corrosion Protection System helps prevent galvanic corrosion from attacking the metal parts of your sterndrive or outboard. This system complements the sterndrive/outboard sacrificial anodes and is not intended to replace those. The Active Corrosion Protection System is recommended for fiberglass boats that are used in saltwater with varying degrees of corrosiveness, or where extra protection against corrosion is needed. The system is designed to protect the mass of one sterndrive or outboard. An additional kit is required for installation on a twin engine boat.

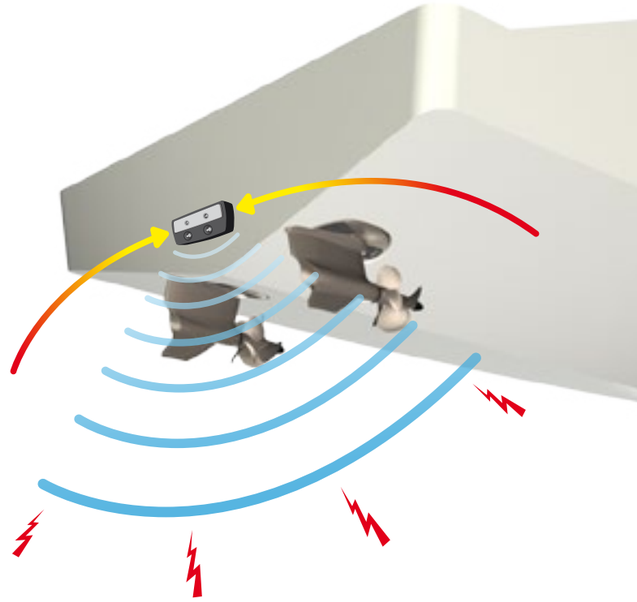
Easy installation

The system comes complete with wiring and detailed installation instructions. Standard tools, a drill and suitable underwater sealant are all that is required for most installations.

The Active Corrosion Protection System is designed for 12V electrical systems and has absolutely no moving parts, so minimum maintenance is required.

Note! Only for fiberglass hulls.

Part no	Drive
41101900	Sterndrives (not DPH) and outboards
3887090	SX-A, DPS-A



PROPELLERS

DEVELOPED FOR PERFECT MATCH

Volvo Penta is world-leading in propeller design. Each propeller is developed exclusively for a specific drive and engine. The design is unique and gives high efficiency at all speeds, safe handling and excellent onboard comfort. Our propellers are made from high-performance stainless steel, aluminium or nickel-bronze-aluminium depending on the specific drive and engine.

A correct choice of propeller is absolutely vital to get the most out of the engine and drive. Their performance decides whether the power produced is turned into boat performance or not. Never compromise on safety and performance by fitting a non-Volvo Penta propeller onto your propeller shaft.

To get an accurate analysis of what propeller to use with your propulsion system, please contact your local Volvo Penta dealer.

THE BUSHINGS

Much more than a piece of rubber! Each propeller has its bushing specifically adapted to handle turning and pulling forces. The bushing gets its final shape and performance when the correct fastening torque is applied. Essential for smooth shifting and long drive-train lifetime.

ELECTRICAL INSULATION

To avoid costly galvanic corrosion Volvo Penta propellers have electrical insulation which is extremely important.

SUPER-STRENGTH MATERIAL

The different materials used are all super-strength and crafted for propeller duty. This gives a certain built-in flexibility.
The material handles the forces without bending or breaking.

THE EFFICIENCY

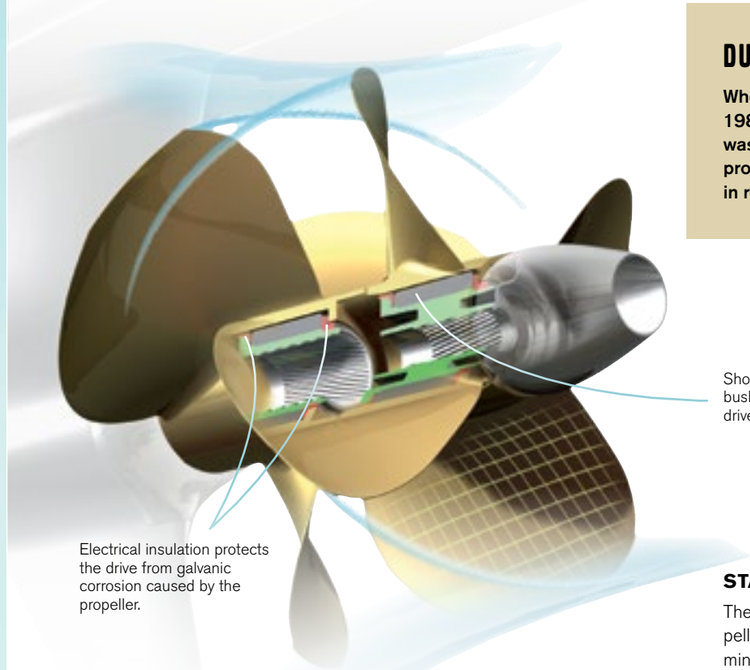
A combination of curving, blade surface and cavitation design. Only when all these factors are perfect do you get maximum efficiency.

THE BALANCE

Each propeller is perfectly in balance, in weight, size and cavitation. Essential for secure grip in curves and driving safety.

THE PERFECT CURVE

Comes from thousands of computer calculations in a uniquely developed program.



DUOPROP PROPELLERS FOR AQUAMATIC

When Volvo Penta introduced the patented Duoprop in 1982, it was the biggest event in boating since the propeller was invented. Twin counter rotating propellers bite hard to produce unparalleled thrust, straight and true tracking - even in reverse - plus faster acceleration on the plane.

STATE-OF-THE-ART PROPELLER TECHNOLOGY

The superior performance of Volvo Penta's world-leading propellers gives you a better boating experience – and peace of mind. Designed for perfect match, they also secure the service life of your drive.

DUOPROP FOR THE DPH DRIVE

Type G

The combination of a 3-blade front and a 4-blade rear propeller, is the key to the tremendous grip in the water. The new generation DP propellers has been specially developed to handle the tremendous torque and power from the D4 and D6 engines. Performance is outstanding and the special nickel-aluminium-bronze alloy complete with full electric isolation ensures minimum growth and excellent corrosion resistance.

DIM				DIM			
G2	3587375	3587386	3587388	G7	3587382	3587398	3587399
G3	3587378	3587389	3587390	G8	3587383	3587400	3587401
G4	3587379	3587391	3587392	G9	3587384	3587402	3587403
G5	3587380	3587393	3587394	G10	3587385	3587404	3587405
G6	3587381	3587395	3587397				

DUOPROP FOR THE DPR DRIVE

Type GR

The GR propeller is developed to handle the outstanding demand for thrust and strength placed by the DPR high speed drive developed for the D4 and D6 engines. Made in stainless steel.

DIM			
GR7	3863492	3863501	3863502
GR8	3863493	3863503	3863504
GR9	3863494	3863505	3863506

Accessories for the DPH, DPR drives - type G/GR

Part No	Qty	Description
21829326	1	Propeller cone kit - G
3863211	1	Propeller nut, front
3863213	1	Propeller nut, rear
21318669	1	Propeller tool
3588753	1	Bellow kit, exhaust
3594509	1	Bellow kit, transmission

Part No	Qty	Description
828250	1	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml
3862764	1	Bushing, front - G
3862765	1	Bushing, rear - G
3862770	1	Bushing, front - GR
3862771	1	Bushing, rear - GR

DUOPROP FOR DP280, 290, DP-A TO DP-E DRIVES

Type J

Type-J is an all new modern aluminum propeller designed for our classic drives with diesel and gasoline engines up to 230 hp. The patented blade geometry and large blade area provide excellent grip and acceleration plus virtually cavitation free and comfortable running. The special high strength aluminum alloy and the squeeze casting process make them stronger and more durable than traditional die cast propellers. Four layers of paint ensure excellent anti-corrosion performance.

Note! For engines above 230 hp and/or speeds above 38 knots (45 mph) we recommend stainless steel Type C.

Note! Do not mix J series with A or B series on the same drive. For twin installations use only the same propeller type on both drives.

DIM			
J 2	21924262	21924222	21924242
J 3	21924263	21924223	21924243
J 4	21924264	21924224	21924244
J 5	21924265	21924225	21924245
J 6	21924266	21924226	21924246
J 7	21924267	21924227	21924247
J 8	21924268	21924228	21924248
J 9	21924269	21924229	21924249
J 10	21924270	21924230	21924250

Type A

Aluminium DP propeller for diesel engines up to 200 hp. The unique design, of the 3-blade propeller in the front and the 4-blade propeller behind, is the key to the outstanding grip in the water.

DIM				DIM			
A 0	872270	872259	872264	A 6	**	854779	854789
A 1	854764	854774	854784	A 7	**	854780	854790
A 2	**	854775	854785	A 8	**	854781	854791
A 3	**	854776	854786	A 9	**	854782	854792
A 4	**	854777	854787	A 10	**	854783	854793
A 5	**	854778	854788				

** For complete kit use the J-series propellers.

Type B

Aluminium DP propeller for gasoline and diesel engines (diesel up to 230 hp). The two 3-blade propellers have very thin blade profiles, demanding the highest level of precision. For speeds above 35 knots we recommend the stainless Type C propeller.

DIM				DIM			
B 1	**	854822	854830	B 5	**	854826	854834
B 2	**	854823	854831	B 6	**	854827	854835
B 3	**	854824	854832	B 7	**	854828	854836
B 4	**	854825	854833	B 8	**	854829	854837

** For complete kit use the J-series propellers.

DUOPROP FOR DP280, 290, DP-A to DP-G DRIVES

Type C

The Volvo Penta state-of-the-art stainless steel DP propeller has been specially designed to give maximum thrust where most needed. The high speed is achieved through thinner blades and powerful thrust. Greater torsional strength adds faster acceleration. The stainless steel material makes the propellers durable and highly resistant to cavitation, damage and corrosion. All these factors contribute to excellent handling and comfort.

DIM				DIM			
C 2	3588222	3587864	3587870	C 5	3588225	3587867	3587873
C 3	3588223	3587865	3587871	C 6	3588226	3587868	3587874
C 4	3588224	3587866	3587872	C 7	3588227	3587869	3587875

Accessories for the DP280, 290, DP-A to DP-G drives - type A, B, C, J

Part No	Qty	Description
3851334	1	Propeller nut
3858458	1	Thrust ring
3858457	1	Thrust ring
872549	1	Propeller cone – shaft 20 mm
872614	1	Propeller cone – shaft 16 mm
876633	1	Bellow kit, Exhaust (DP280-DPE)
876631	1	Bellow kit, Exhaust (DP290-DPE)
876294	1	Bellow kit, CV joint (DP280)

Part No	Qty	Description
876294	1	Bellow kit, CV joint (DP290, DP-A to DP-G)
873058	1	Propeller tool
828250	1	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml
3851533	1	Bushing, front (type A, B)
3851534	1	Bushing, rear (type A, B)
3843315	1	Bushing, front (type C)
3843316	1	Bushing, rear (type C)

DUOPROP FOR THE DPX DRIVE

Type E

This stainless steel propeller is specially developed to handle the high forces of the DPX high speed drive. Handling speeds up to 75 knots put high demands on the propellers performance.

DIM			
E 2	3860065	872422	3860011
E 3	3860066	872423	3860012
E 4	3860067	872424	3860013

Accessories for the DPX drive – type E

Part No	Qty	Description
3851335	1	Propeller nut
872179	1	Propeller nut
872546	1	Lock screw
876631	1	Bellow kit, Exhaust
876294	1	Bellow kit, Transmission

Part No	Qty	Description
885195	1	Propeller tool
828250	1	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml
872176	1	Bushing, front
872177	1	Bushing, rear

DUOPROP FOR THE DPS-A DRIVE

Type I

A propeller introduced replacing the D-series. The development work and experience from the successful DPH and IPS twin -propellers has been transferred to an aluminium propeller series with straight splines.

The propeller series are smooth running with high comfort level. The blade geometry with thinner and larger (patented design) gives improved performance regarding acceleration, top speed and propeller grip. The design, material and its surface treatment gives a good cavitation resistance. The series also have improved 4-layer surface treatment including pre-treatment for corrosion protection. The I-series is recommended for boat speeds up to 38 knots (45 mph)

Note! Do not mix D series with I series on the same drive. For twin installations use only the same propeller type on both drives.

DIM				DIM			
I 2	21258482	21260642	21657162	I 7	21258487	21260647	21657167
I 3	21258483	21260643	21657163	I 8	21258488	21260648	21657168
I 4	21258484	21260644	21657164	I 9	21258489	21260649	21657169
I 5	21258485	21260645	21657165	I 10	21258490	21260650	21657170
I 6	21258486	21260646	21657166				

Type D

The aluminium propeller for all gasoline and diesel engines using the DPS drive. The D-series is replaced by the I-series.

Note! Do not mix D series with I series on the same drive. For twin installations use only the same propeller type on both drives.

DIM				DIM			
D 0	**	3851420*	3851440*	D 5	**	3856345*	3856355*
D 1	**	3851421*	3851441*	D 6	**	3856346*	3856356*
D 2	**	3851422*	3851442*	D 7	**	3856347*	3856357*
D 3	**	3851423*	3851443*				

* The D-series front and rear propeller are only available as spare parts for existing installations.
** For complete kit use the I-series propellers on page 64.

Type F

The stainless steel option for high performance gasoline and diesel engines with DPS drive. The material used gives the propeller blades greater torsional strength. The propellers are electrically insulated from the drive to prevent galvanic corrosion.

DIM				DIM			
F 2	3857563	3857557	3857558	F 6	3851496	3851466	3851476
F 3	3857564	3857559	3857560	F 7	3851497	3851467	3851477
F 4	3851494	3851464	3851474	F 8	3851498	3851468	3851478
F 5	3851495	3851465	3851475	F 9	3851499	3851469	3851479

Accessories for the DPS-A drive - type D, F and I

Part No	Qty	Description
3851569	1	Propeller nut, front
21631162	1	Propeller nut, rear
3851600	1	Front spacer ring
3888916	1	Bellow kit, Exhaust
22197130	1	Bellow kit, Transmission
3862797	1	Propeller tool, front

Part No	Qty	Description
3862808	1	Propeller tool, rear
3855516	1	Propeller tool kit
828250	1	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml
3851258	1	Bushing, front (type D & F)
3851259	1	Bushing, rear (type D & F)

DUOPROP FOR THE DPS-B DRIVE

Type IH

The new IH-series have the same benefits as Type I but is specially made for the DPS-B drives with helical splines. Only FH- and IH-series propellers have the helical splines. The IH-series is the aluminium option for the DPS-B drive.

Important! IH propellers are only approved on D3 diesel and 4.3L gasoline applications below 38 knots (45mph).

DIM				DIM			
IH 2	21661942	21661902	21661922	IH 7	21661947	21661907	21661927
IH 3	21661943	21661903	21661923	IH 8	21661948	21661908	21661928
IH 4	21661944	21661904	21661924	IH 9	21661949	21661909	21661929
IH 5	21661945	21661905	21661925	IH 10	21661950	21661910	21661930
IH 6	21661946	21661906	21661926				

Type FH

The stainless steel option for high performance gasoline and diesel engines with DPS-B drive. Only FH and IH series propellers have the helical splines. The FH propeller is designed to transfer all thrust from the propeller to the main body of bushing. This ensures that the propeller cannot walk forward on the bushing. The propellers are electrically insulated from the drive to prevent galvanic corrosion.

DIM				DIM			
FH 2	3885838	3885846	3885847	FH 6	3885842	3885854	3885855
FH 3	3885839	3885848	3885849	FH 7	3885843	3885857	3885859
FH 4	3885840	3885850	3885851	FH 8	3885844	3885860	3885861
FH 5	3885841	3885852	3885853	FH 9	3885845	3885862	3885863

Accessories for the DPS-B drive - type FH and IH

Part No	Qty	Description
3851569	1	Propeller nut, front
21631162	1	Propeller nut, rear
3851600	1	Front spacer ring
21604545	1	Bushing, front (type FH)
21604578	1	Bushing, rear (type FH)
3888916	1	Bellow kit, Exhaust
22197130	1	Bellow kit, Transmission
3862797	1	Tool, front
3862808	1	Tool, rear
3855516	1	Tool kit
828250	1	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml

SINGLE PROPELLERS FOR AQUAMATIC

The Volvo Penta single propellers are made from aluminium or high-performance stainless steel and are available for right-hand and left-hand rotation. Developed and tested for each application to ensure performance, handling and life expectancy. The design is unique, which results in high efficiency at all speeds, safe handling, easy maneuvering – and excellent onboard comfort.

SINGLE PROPELLER FOR THE 200-290 DRIVES

The increased blade area of the high speed propeller makes it most suitable for use with high power engines and at high revs. In a fast boat this does not only mean increased speed, it also means that a heavily loaded boat will plane more quickly and enjoy better fuel economy. The high speed propeller's excellent reversing characteristics also mean faster and safer quayside manoeuvring.

Aluminium high speed long hub propeller

V6 and V8 engines should always be fitted with the long hub which is also suitable for 4 cylinder petrol engines.
HS = High Speed propeller

Ø x Pitch			Ø x Pitch		
14 x 17	854977	854992	16 x 9	854985	—
14 x 19	854978	854993	16 x 13	854986	872000
14 x 21	854979	854994	16 x 15	854987	872001
14 x 23	854980	854995	16 x 17	854988	872002
15 x 15	854981	854996	16 x 19	854989	872003
15 x 17	854982	854997	16 x 21	854990	872004
15 x 19	854983	854998	16 x 23	854991	872005
15 x 21	854984	854999			

Aluminium high speed and standard propeller, short hub

STD = Standard Propeller HS = High Speed propeller

Ø x Pitch			Ø x Pitch		
14 x 13	813284 STD	813285 STD	15 x 11	813296 STD	813297 STD
14 x 15	814626 HS	814631 HS	15 x 13	813316 STD	813317 STD
14 x 17	814627 HS	814632 HS	15 x 15	814611 HS	814615 HS
14 x 19	814628 HS	814633 HS	15 x 17	814612 HS	814616 HS

Accessories single propellers

Part No	Qty	Description
876294	1	Bellow kit (DP200-290)
873058	1	Propeller tool kit
828250	1	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml
854045	1	Propeller cone

Part No	Qty	Description
854047	1	Spacer ring
897367	1	Tab washer
850888	1	Thrust washer
850889	1	Screw
3851531	1	Bushing (HS long hub)

Standard propellers for 100 drives with cylindrical shaft and locking pin

HS = High Speed propeller

Ø x Pitch		
13 x 13	813224	813233
13 x 15	839186 HS	
14 x 11	813227	
14 x 11	804449	
14 x 13	813229	
14 x 15	832992	

SINGLE PROPELLERS FOR SX DRIVE

The SX propeller is available in 3-blade aluminium and stainless steel as well as 4-blade aluminium. The 3-blade SX is perfect for the standard installation and the stainless propeller being the perfect choice for high speeds. The 4-blade SX propeller is the perfect choice when acceleration and remaining planing at lower revs are important.

3-Blade

Aluminium Ø x Pitch			
14,3 x 21	–		3817469
14,2 x 23	–		3817470
14,5 x 19	3817473		3817468
14,8 x 17	3817472		3817467
15 x 15	3817471		3817466
15 x 16	–		–
15,5 x 12	3855476		–
15,5 x 13	3855477	16 x 13	3840720
15,5 x 14	3855478		–

3-Blade

Stainless steel Ø x Pitch		
14,75 x 17	3860714	3862462
14,75 x 19	3860715	3860708
14,75 x 21	3860716	3860709
14,25 x 23	3860717	3860710

4-Blade

Aluminium Ø x Pitch		
14,75 x 15	3587519	3587517
14,5 x 17	3587521	3587520
14,25 x 19	3587523	3587522
14 x 21	3587525	3587524
14 x 23		3587526

Accessories for the SX drive – Aluminium, Stainless Steel

Part No	Qty	Description
3850984	1	Propeller nut kit
3852350	1	Spacer
3862086	1	Bushing (3-blade stainless steel/aluminium)
3852056	1	Cotter pin

Part No	Qty	Description
3587601	1	Bushing (4-blade)
828250	1	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml

PROPELLERS FOR VOLVO PENTA IPS

The Volvo Penta IPS propellers are made to add to the revolutionary Volvo Penta IPS propulsion systems outstanding performance. Our propellers for Volvo Penta IPS take full advantage of the twin, counter-rotating concept. The propellers have perfect balance and are developed to match perfectly.

The front and rear propellers must interact in perfect harmony to deliver optimized performance. Volvo Penta has done extensive testing to ensure a perfect match throughout to complete drivetrain. Incorrect balance leads to excessive wear on the drivetrain. The nickel-aluminium-bronze propeller is developed to add to the revolutionary IPS propulsion system's outstanding performance. The design combined with a material that withstands corrosion, as well as minimizing growth, ensure optimum performance and outstanding manoeuvrability.

Line Cutter

The line cutter is mounted to the rear propeller which creates a very efficient rotating cutting action. It is easy to install using the existing locking bolts and does not increase drag or fuel consumption.

Part No	21686492	21686494	21686496
Fits	T & TS	P & PS	Q
Diameter	95 mm	120 mm	140 mm
Material	316 Stainless steel	316 Stainless steel	316 Stainless steel

PROPELLERS FOR VOLVO PENTA IPS I DRIVE

Type T

DIM				DIM			
T2	3861092	3861093	3861094	T7	3861107	3861108	3861109
T3	3861095	3861096	3861097	T8	3861110	3861111	3861112
T4	3861098	3861099	3861100	T9	3861113	3861114	3861115
T5	3861101	3861102	3861103	T10	3861116	3861117	3861118
T6	3861104	3861105	3861106				

Type TS – Semi-planing

DIM				DIM			
TS3	21368025	21368026	21368027	TS5	21258473	21258474	21258475
TS4	21368016	21368017	21368018	TS6	21368012	21368013	21368014

Accessories for propellers to Volvo Penta IPS drive – type T & TS

Part No	Qty	Description
22077581	1	Propeller cone kit
21293480	1	Propeller cone
3862454	1	Plastic ring
3861209	1	Lock ring
3861087	1	Lock nut

Part No	Qty	Description
3861088	1	Lock plate
963699	9	Hex. socket screw
21686492	1	Line cutter
828250	2	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml

PROPELLERS FOR VOLVO PENTA IPS II DRIVE

Type P

DIM				DIM			
P1	3843980	3843981	3843982	P5	3843965	3843966	3843967
P2	3843956	3843957	3843958	P6	3843968	3843969	3843970
P3	3843959	3843960	3843961	P7	3843971	3843972	3843973
P4	3843962	3843963	3843964	P8	3843974	3843975	3843976

Type PS – Semi-planing

DIM				DIM			
PS4	21622828	21622814	21622823	PS5	21622827	21622813	21622822

Accessories for propellers to Volvo Penta IPS drive – Type P & PS

Part No	Qty	Description
21154200	1	Propeller cone
	1	Spacer sleeve
3843992	1	Plastic ring
3593639	1	Felt washer
21154206	1	Propeller nut

Part No	Qty	Description
21154277	1	Propeller nut
21686494	1	Line cutter
828250	2	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml

PROPELLERS FOR VOLVO PENTA IPS III DRIVE

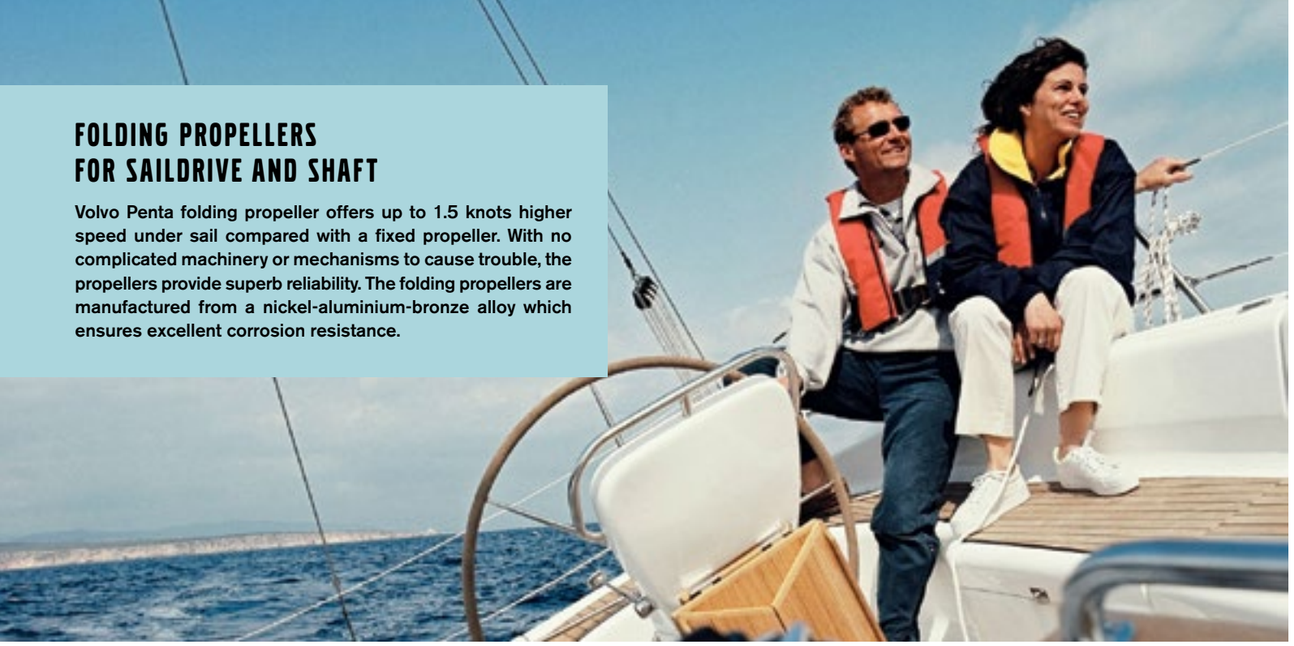
Type Q

DIM				DIM			
Q1	21433621	21433601	21433611	Q5	21433625	21433605	21433615
Q2	21433622	21433602	21433612	Q6	21433626	21433606	21433616
Q3	21433623	21433603	21433613	Q7	21433627	21433607	21433617
Q4	21433624	21433604	21433614				

Accessories for propellers to Volvo Penta IPS drive – type Q

Part No	Qty	Description
40005165	1	Propeller cone
40005161	1	Propeller nut
40005157	1	Propeller nut
21235219	1	Felt washer
963699	11	Hex socket screw

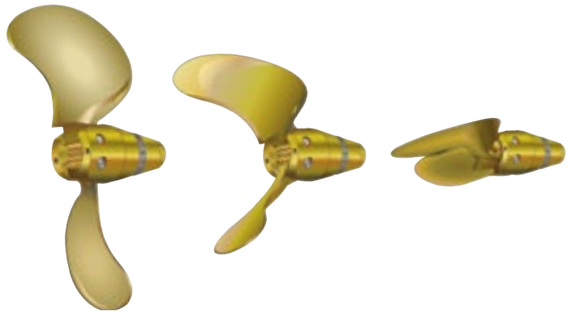
Part No	Qty	Description
40005165	1	Spinner
21686496	1	Line cutter
828250	2	Lubricating grease 25g
21347121	1	Grease, prop shaft 400ml

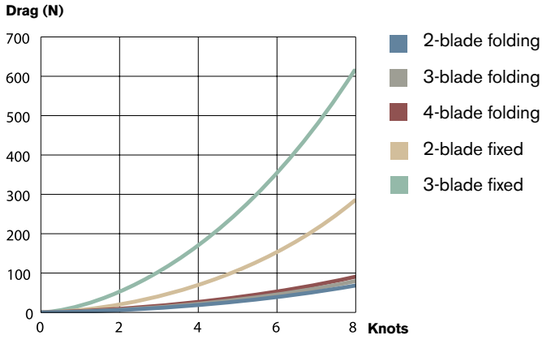


FOLDING PROPELLERS FOR SAILDRIVE AND SHAFT

Volvo Penta folding propeller offers up to 1.5 knots higher speed under sail compared with a fixed propeller. With no complicated machinery or mechanisms to cause trouble, the propellers provide superb reliability. The folding propellers are manufactured from a nickel-aluminium-bronze alloy which ensures excellent corrosion resistance.

The folding propeller's greatest advantage is its low drag under sail. The folding propellers offer outstanding manoeuvrability. Despite being a folding propeller, reverse thrust is fully comparable with that of a fixed propeller. The 3- and 4-blade propellers offer more or less the same speed as a 3-blade fixed propeller across the full rev range. Up to 8 times lower drag compared to a 3-blade fixed propeller. And, what's more, the unique blade profile promotes an extremely quiet and vibration free operation.





Water drag were measured in a test carried out by SSPA Maritime Consulting. Propellers mounted on S-drives were measured. The lower drag produced by the Volvo Penta folding propellers can boost sailing speed by up to 1.5 knots.

Volvo Penta propeller range

Saildrive	D1-13	D1-20	D1-30	D2-40	D2-55	D2-75
Folding propellers, 2-blade	●	●	●	●		
Folding propellers, 3-blade		●	●	●	●	●
Folding propellers, 4-blade					●	●
Fixed propellers	●	●	●	●	●	●

Shaft	D1-13	D1-20	D1-30	D2-40	D2-55	D2-75	D3-110	D3-150	D3-180
Folding propellers, 2-blade	●	●	●	●					
Folding propellers, 3-blade		●	●	●	●	●			
Folding propellers, 4-blade					●	●	●		

2-BLADE FOLDING PROPELLER

Available for both sail drive and shaft. Propeller size has to be calculated to match engine and gear ratio. Use calculation program or propeller diagrams. For a complete propeller, order one blade kit and one hub kit.

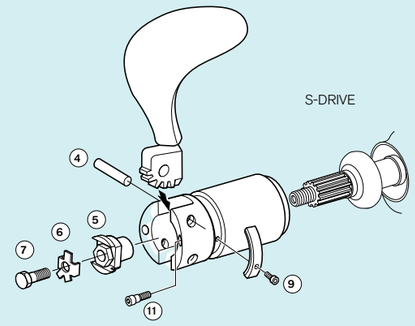
Blade kits*	S-Drive & shaft	Shaft
Ø x Pitch		
14 x 7	21629132	21629136
14 x 8	21629140	21629144
15 x 8	21629147	21629152
15 x 10	21629158	21629167
16 x 10	21629173	21629177
16 x 11	21629182	21629186
17 x 11	21629190	21629194
17 x 12	21629198	21629201
18 x 12	21629205	21629211
19 x 13	21629214	21629218

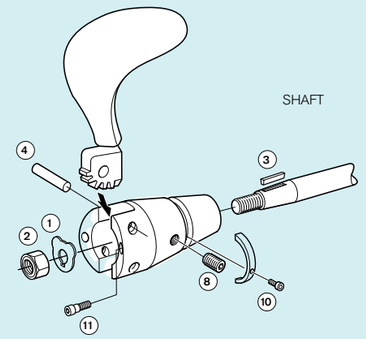
Propeller size has to be calculated to match engine and gear ratio.
Use calculation program or propeller diagrams.

Hub kits for 2-Blade folding propeller*

Boat installation	S-Drive	Shafts				
Description	120, 130, 150, SMS25S	25 mm Taper 1:10 Key 6 mm	30 mm Taper 1:10 Key 8 mm	1 1/4" Taper 1:16 Key 5/16	1" Taper 1:16 Key 1/4	Pre-drilled, for other shaft diameter
Part No	21630720	21630721	21630722	21630724	21630723	21630725

* For a complete propeller, order one blade kit and one hub kit.





Accessories 2-blade folding

Part No	Pos	Qty	Description
3584466	5	1	Propeller nut
3851994	6	1	Lock washer
946730	7	1	Hexagon screw
21626924	4	2	Shaft
3595221	11	2	Lock screw
3581246	8	2	Screw
963677	9	3	Hex. socket screw
963675	10	2	Hex. socket screw
1161053		1	Locking fluid

Part No	Pos	Qty	Description
828250		1	Lubricating grease 25g
21347121		1	Grease, propeller shaft 400ml
873475	1	1	Tab washer, M16
873473	2	1	Nut, prop shaft, M16
873474	3	1	Key, prop shaft, Ø25mm
873487	3		Key, prop shaft, Ø30mm
873488	1	1	Tab washer, M20
873486		1	Nut, prop shaft, M20

3-BLADE FOLDING PROPELLER

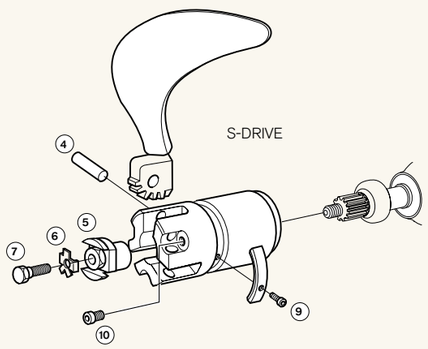
Available for both sail drive and shaft. Propeller size has to be calculated to match engine and gear ratio. Use calculation program or propeller diagrams. For a complete propeller, order one blade kit and one hub kit.

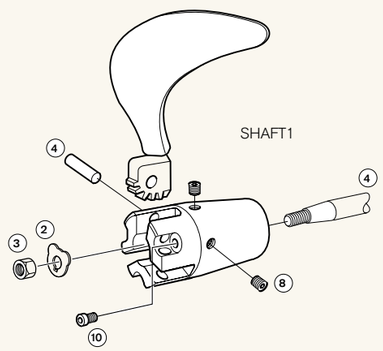
Blade kits*	S-Drive & Shaft	Shaft	Blade kits*	S-Drive & Shaft	Shaft
Ø x Pitch			Ø x Pitch		
14 x 7	—	3583409	17 x 12	3583388	3583417
14 x 8	—	3583410	18 x 12	3583389	3583418
14 x 9	3583382	3583411	18 x 13	3583390	3583419
15 x 9	3583383	3583412	18 x 14	3583391	3583420
15 x 10	3583384	3583413	18 x 15	3583392	3583421
16 x 10	3583385	3583414	18 x 16	3584031	3583422
16 x 11	3583386	3583415	19 x 16	3583393	3583423
17 x 11	3583387	3583416			

Hub kits for 3-blade folding propeller*

Boat installation	S-Drive	Shafts				
Description	110, 120, 130, 150, MS25S/SR	25 mm Cone ratio 1:10 Wedge 6 mm	30 mm Cone ratio 1:10 Wedge 8 mm	1" Cone ratio 1:16 Wedge 1/4"	1 1/4" Cone ratio 1:16 Wedge 5/16"	Pre-drilled, for other shaft diameter
Part No	3858955	3583424	3583425	3583426	3583427	3583428

* For a complete propeller, order one blade kit and one hub kit.





Accessories 3-blade folding

Part No	Pos	Qty	Description
3584466	5	1	Propeller nut
3851994	6	1	Lock washer
946730	7	1	Hexagon screw
3581243	4	3	Shaft
963695	10	3	Hex. socket screw
3581246	8	3	Screw
963677	9	3	Hex. socket screw
873473	3	1	Nut, prop shaft, M16

Part No	Pos	Qty	Description
873475	2	1	Tab washer, M16
873486	3		Nut, prop shaft, M20
873488	2		Tab washer, M20
873474	1	1	Key, prop shaft, Ø25mm
873487	1		Key, prop shaft, Ø30mm
828250		2	Lubricating grease 25g
21347121		1	Grease, prop shaft 400ml
1161053		1	Locking fluid 10ml

4-BLADE FOLDING PROPELLER

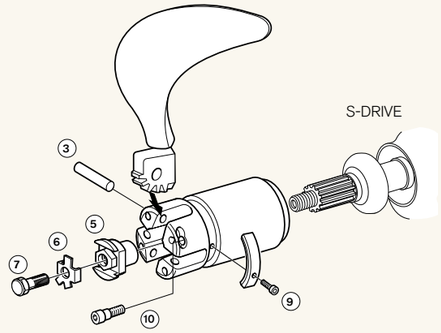
Available for both sail drive and shaft. Propeller size has to be calculated to match engine and gear ratio. Use calculation program or propeller diagrams. For a complete propeller, order one blade kit and one hub kit.

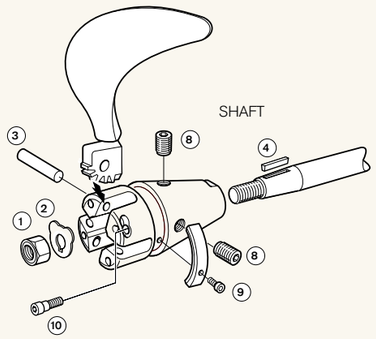
Blade kits*	S-Drive & Shaft	Shaft
Ø x Pitch		
20 x 14	3583917	3583918
21 x 15	3583919	3583920
22 x 16	3583921	3583922
22 x 18	3583923	3583924
22 x 20	3583925	3583926

Hub kits for 4-blade folding propeller*

Boat installation	S-Drive	Shafts					
Description	120, 150, MS25S	25 mm Taper 1:10 Key 6 mm	30 mm Taper 1:10 Key 8 mm	35 Taper 1:10 Key 10 mm	40 Taper 1:10 Key 12 mm	1 1/4" Taper 1:16 Key 5/16	1 1/2" Taper 1:16 Key 3/8
Part No	3583927	3583928	3583929	3583930	3584137	3583931	3583932

* For a complete propeller, order one blade kit and one hub kit.





Accessories 4-blade folding

Part No	Pos	Qty	Description
3584466	5	1	Propeller nut
3851994	6	1	Lock washer
946730	7	1	Hexagon screw
3583951	3	4	Shaft
963695	20	4	Hex. socket screw M6x14
3581246	8	2	Screw
963677	9	3	Hex. socket screw M5x16
3587422	1	1	Nut, prop shaft, M24
873474	4	1	Key, prop shaft, Ø25mm

Part No	Pos	Qty	Description
873486	1		Nut, prop shaft, M20
873473	1		Nut, prop shaft, M16
873488	2		Tab washer, M20
873506	2		Tab washer, M24
873487	4		Key, prop shaft, Ø30mm
873496	4		Key, prop shaft, Ø35mm
873505	4		Key, prop shaft, Ø40mm
873475	2		Tab washer, M16
828250		2	Lubricating grease 25g
21347121		1	Grease, prop shaft 400ml

FIXED PROPELLERS FOR SAILDRIVE

Volvo Penta's S-drive propellers are manufactured of aluminium, developed to withstand salt water and cavitation damage. The propellers are manufactured to a high and consistent quality under rigid quality controls.

2-Blade (S-drives 110S, 120S, 130S and 150S)

S-Drive Ø x Pitch		S-Drive Ø x Pitch	
14 x 7	21351239	16 x 13	21351240
14 x 8	21351270	17 x 14	21351232
14 x 9	21351241	17 x 16	21351265
14 x 11	21351275	17 x 17	21353570
15 x 11	21351281	19 x 17	21351284
16 x 11	21351235		

2-Blade (S-drives 50S, 100S)

S-Drive	Ø x Pitch	
MD6A	14 x 8	839514
MB10A	16 x11	839191
MD11C	16 x11	839191

3-Blade (S-drives 110S, 120S, 130S and 150S)

S-Drive Ø x Pitch		S-Drive Ø x Pitch	
14 x 9	21381258	17 x 12	21381274
14 x 11	21381260	17 x 13	21381275
14 x 12	21381262	17 x 14	21401615
15 x 12	21381264	17 x 15	21381279
15 x 13	21381265	17 x 16	21381280
16 x 11	21381283	18 x 16	21381042

Accessories for S-drive

Part No	Qty	Description
850396	1	Propeller cone kit
851773	1	Screw
850888	1	Plastic washer
828250	1	Lubricating grease 25g
21347121	1	Grease, propeller shaft 400ml

ANODES

Anodes are to be sacrificed in order to protect the drive unit and propeller against galvanic corrosion. Volvo Penta anodes are tested and specially produced for Volvo Penta drives and propellers.

The specifications are, in certain cases, more stringent than any other marine materials standards in the world. If 50% or more of the anode has been eaten away by corrosion it must be replaced in order to, once more, fulfil its vital function.

Never jeopardize safety and performance by fitting a non-genuine anode. Remember to never paint over the anodes.

	Lower Gear Anode		Spray Plate Anode		
	Zinc	Magnesium	Zinc	Magnesium	Aluminium
Single Aquamatic					
100	875810				
200 – 290 SP	875815	876137			
Duoprop Aquamatic					
280 – 290 DP	875821	876138			
DPX			876638		
DPS -A, SX-A			3888814	3888815	3888813
SX / DP-S			3855411	3855412	3863193
DPH			3588746	3588750	3588748
DPR			3589875	3589877	3589876
S-drive					
120S	876286	876604			
130S /150S (2 piece)	3888305	3888306			

	Transom Shield Anode		
	Zinc	Magnesium	Aluminium
Aquamatic			
280	832598	873179	
290 SP, DP	852835	873178	
DPX	872139		
DPS -A, SX-A	3888817	3888818	3888816
SX / DP-S	3854130	3855610	3586461
DPH	3588745	3588768	3588770
DPR	3588745	3588768	3588770

Type of water

Find our general recommendation on which type of anode should be used in what water type in below table.

Saltwater – Zinc
Brackish water – Aluminium
Freshwater – Magnesium

Zinc and aluminum anodes will if left in freshwater become covered with a white oxide which effectively passivate the anode, zinc anodes suffer a similar problem even in brackish water.

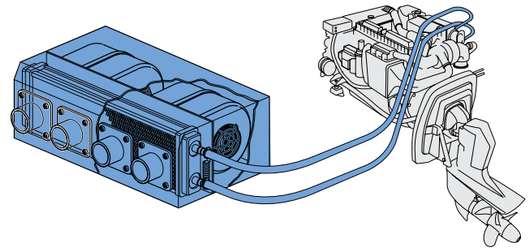
If the anode becomes passive, the drive will start to sacrifice itself, this will cause serious damage. Magnesium anodes will wear off much to fast in saltwater.

	Proppeller Anode	
	Zinc	Magnesium
Propellers for S-drive		
Folding propeller – 2 blade	3858399	3858400
Folding propeller – 3 blade	3858399	3858400
Folding propeller – 4 blade	3584442	3584443
Propellers for Shafts		
Folding propeller – 2 blade	3888491	3888493
Folding propeller – 4 blade	3584442	3584443
Fixed propeller		
For 30 mm propeller shaft W3/4	833913	
For 35 mm propeller shaft W7/8	833915	
For 40 and 45 mm propeller shaft W1	828140	
For 25 mm propeller shaft M16	873411	
For 30 mm propeller shaft M20	873412	
For 35 and 40 mm propeller shaft M24	873413	
For 45 mm propeller shaft M30	873415	

	Anode
Volvo Penta IPS	
Lower Gear Anode	3593981
Transom Anode IPS1	40005875
ACP	21174476

SAFETY & COMFORT

Volvo Penta's accessories give you the opportunity to tailor your boat perfectly to your requirements. With Volvo Penta's wide range of high quality engine and boat accessories, you can improve safety, comfort, manoeuvrability, performance and more.



AIR HEATER

The air heater extracts heat from the engine's cooling system, which would otherwise be wasted, and transfers it into the cabin. A fan circulates air through a heat exchanger. The air heater makes it possible to make use of the engine closed-circuit cooling system without additional water pipes and radiators.

Air heater

Product data:

Output: 10 kW/5 kW

Power supply: 12 V/24 V

Capacity (free flow): 550m 3/330m 3/hour at max. speed

Fan: 3 speed

Casing: Stainless steel

Heat exchanger: Copper/Brass

Weight: 6.6 kg/5.1 kg

Dimensions: 370 x 160 x 236 mm/230 x 160 x 236 mm

Fan type: Radial

Water connection: 16 mm

Part no	Effect	Voltage	
21621753	10 kW	12 V	
21621754	10 kW	24 V	a)
21621751	5 kW	12 V	a)
21621752	5 kW	24 V	a)
21621755	10 kW	12 V	b)

a) 55 mm, b) 60 mm

Air heater - accessories

Part no	Description
21656846	Hose connector kit, 50 mm
21656848	Hose connector kit, 60 mm
21656849	Hose connector kit, air intake, 80 mm
41103307	Switch
21656851	Nozzle, adjustable, black 50 mm
21656852	Nozzle, adjustable, black, 55 mm
21656853	Nozzle, adjustable, black, 60 mm
21656854	Hose, 50 mm
21656855	Hose, 55 mm
21656856	Hose, 60 mm
21656857	Hose, air intake, 80 mm
41103317	Hose connector kit, 55 mm
41103316	Y-connector, 80 mm
41103325	Y-connector, 60 mm
21656859	Y-connector, 55 mm
41103329	High-flex hose, 55 mm

Four outlets are supplied that can be connected with air hoses. The standard outlets are 55 mm diameter. The airflow can be set at three different speeds.

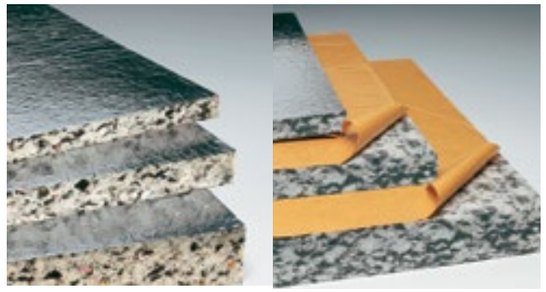
The air heater is highly efficient and can be installed vertically or horizontally. Its compactness makes it easy to install almost anywhere. The selection of materials; stainless steel for the casing and copper/brass for the heat exchanger, ensures long service in a harsh onboard atmosphere.

The air heater comes in two sizes; 5 and 10 kW. Available for 12 V or 24 V supply, it consumes very little power. Its low noise level is another advantage. The air heater can be installed above the engine and any air trapped in the coolant can be released through a separate bleed valve.

Optional extras include air hoses, hose connections and various types of air valves.

SOUND ABSORBENT PANELS

The sound absorbants have a very good isolating and absorbing effect with a density of 100 kg/m³ (6,24 lb / ft³), and are well adapted to the noise frequency and noise level of marine engines (see diagram). They are made of recycled foam, which has a combination of weight and porosity that both insulates and absorbs.



Two versions

The sound absorbants are sold in sheets of 500 mm x 1000 mm (20 in x 40 in), they are easy to handle both in transport and when mounted. They are available in three thicknesses, 20, 30 and 50 mm, and can easily be cut to shape with a sharp knife. The sheets come in two versions, self-adhesive and nonadhesive.

Fire resistant material

Sound Absorbent Panels are approved for installation in boats to be CE marked according to EU Directive 94/25/EC. The material is treated with a fireresistant formula and withstands temperatures up to max. 200°C/390°F.

The material is covered with an oil resistant foil that easily could be cleaned from any oil spray etc.

Best result

To achieve the best possible result, it is important that you fit the sheets properly. The joins must be as tight as possible and covered with foil tape to avoid noise leakage or penetration of water, which could be absorbed by the material.

For convenient mountig you can use Sound Insulation Hangers.

Features:

- Made of recycled polyurethane foam.
- Density of 100kg/m³ / 6,24lb/ft³.
- Protection film of aluminium foil.
- Fire proof reg: ISO3795 (FMVSS302).
- Temperature resistance: Max. 200°C / 390°F.
- Oxygen index: 24% according to ASTM D2863-91 and fulfills ISO 4589-3.

Sound absorbent panels

Part no	Dimension	Rear side	Sound absorbent panel
41103800	500 x 1000 mm	Non-adhesive	20 mm
41103801	500 x 1000 mm	Non-adhesive	30 mm
41103802	500 x 1000 mm	Non-adhesive	50 mm
41103803	500 x 1000 mm	Self-adhesive	20 mm
41103804	500 x 1000 mm	Self-adhesive	30 mm
41103805	500 x 1000 mm	Self-adhesive	50 mm

Aluminium tape

Part no	Aluminium tape	Rear side	Length
41103806	Roll	Self-adhesive	5 m
41103809	Roll	Self-adhesive	50 m

Sound insulation hangers

For convenient mounting. 10 pcs.

Part no
41103810

EXCHANGE SYSTEM

Do you have an older engine/drive and want to buy certain parts at lower prices whilst at the same time caring for the environment? Volvo Penta Exchange system with Genuine Volvo Penta Parts gives you as a customer parts with just as high quality as a brand new part.

VOLVO PENTA GENUINE QUALITY

Each and every Volvo Penta Exchange product is remanufactured in accordance with Volvo Penta stringent specifications for materials, tolerances and assembly. All in order to provide the right performance. The know-how and experience needed to remanufacture an exchange part properly is only available within Volvo Penta.

Exchange products are:
– made to exact dimensions for perfect fit
– covered by the same warranty as brand new Volvo Penta parts

ENVIRONMENTAL CARE

Exchange products are saving up to 80 % in energy use and reducing the use of raw material up to 85 %.

This means:
– saving energy
– saving raw material
– scrapped material is sorted and recycled

VOLVO PENTA EXCHANGE SYSTEM INCLUDES

- Engines
- Long block
- Short block
- Cylinder head
- Circulation pumps
- And more …
- IPS
- Turbos
- Injectors
- Unit injectors
- Drives

Please contact your dealer for more information.

MAINTENANCE PARTS

PROTECT YOUR INVESTMENT

This section gives you as boat owner recommendation of maintenance parts that needs to be changed regularly to keep the engine and drive run more reliably and economically and use less fuel, with less chance of unnecessary breakdowns. You will find more detailed information such as how often you should change different parts in your engine instruction book and our do-it-yourself manuals. A good starting point is however to make sure key components are changed when laying-up and launching your boat. If you don't want to carry out the service yourself please contact a Volvo Penta dealer to schedule the service or sign a service contract. Volvo penta dealers offers different types of service contract depending on how much you want to do yourself.

KEEP YOU VOLVO PENTA A VOLVO PENTA

Non-genuine parts are often just badly dimensioned copies of genuine Volvo Penta parts, but no account has been taken of Volvo Penta original standards, nor have the necessary quality and reliability tests been made. This shortcut may produce cheaper parts, but it also produces insecurity when operational reliability is considered. Moreover, the Volvo Penta warranty is not valid if damage or breakdown is caused by using a non-genuine part. There is safety only in using Volvo Penta parts.

DIESEL ENGINES

2001, 2002, 2003, 2003T	
22057107	Oil filter
829913	Fuel filter
838929	Engine zinc anode
21951342	Impeller (2001, 2002, 2003)
21951346	Impeller (2003T)

AQAD31A, AD31A/B/D/XD/P/L-A, MD31A, TMD31A/B/D/L-A, TAMD31A/B/D/P/L/M/S-A, KAD32A	
3517857	Oil filter
21492771	Fuel filter
838929	Engine zinc anode
858488	Air filter (earlier version)
21646645	Air filter (later version)
21951356	Impeller
876069	Crankcase filter

D1-13, D1-20	
861473	Oil filter
861477	Fuel filter
22222936	Impeller

D1-30, D2-40	
3840525	Oil filter
861477	Fuel filter
22222936	Impeller

D2-55, D2-75	
3840525	Oil filter
861477	Fuel filter
21951346	Impeller

D3, - MY 2009	
8692305	Oil filter
31261191	Fuel filter
21646645	Air filter, round
21171277	Air filter, square
21951352	Impeller

D3, MY 2010-	
30788490	Oil filter
21139810	Fuel filter
21379288	Air filter
21951352	Impeller

D4, D6	
22030848	Oil filter
22030852	Oil filter, by-pass
21718912	Fuel filter
21702999	Air filter
3588475	Impeller (D4)
3593573	Impeller (D6)

KAD44P-A/P-B/P-C, KAMD44P-A/P-B/P-C, KAD300A, KAMD300A	
423135	Oil filter
21624740	Fuel filter
876185	Air filter
21951356	Impeller

MD1A/B, MD2A/B, MD5A/B/C, MD11C/D	
22057107	Oil filter
876554	(MD1/2, 5A/B, 11C)
829913	Fuel filter, spin-on (alt. MD5/11)
21951342	Impeller (4 screws in lid)
3586494	Impeller (6 screws in lid)

MD3B, MD17C/D	
22057107	Oil filter
829913	Fuel filter, spin-on (alt. MD17)
876554	Fuel filter, insert
21951342	Impeller

MD6A/B	
22057107	Oil filter
21492771	Fuel filter
21951342	Impeller (4 screws in lid)
3586494	Impeller (6 screws in lid)

MD7A/B	
22057107	Oil filter
21492771	Fuel filter
21951342	Impeller

MD21A/B, AQD21A/B	
21549544	Oil filter
3581078	Fuel filter (CAV)
21951350	Impeller

MD22A/B, TMD22A/B, TAMD22A	
3517857	Oil filter (B, C)
861476	Oil filter (A)
21624740	Fuel filter
21951346	Impeller

MD30A/B/D/AQ, TAMD30A/B/D/AQ, TMD30A/B/D/AQ, AQAD30A	
3517857	Oil filter
21492771	Fuel filter
838929	Engine zinc anode
21951356	Impeller
876069	Crankcase filter
876185	Air filter

MD40A, TMD40A/B/C, TAMD40A/B, AQD40A, AQAD40A/B	
471034	Oil filter
21624740	Fuel filter
838929	Engine zinc anode
21951356	Impeller
21951360	Impeller (TAMD40, AD40)
876069	Crankcase filter
876185	Air filter

MD2010, MD2020, MD2030, MD2040		
861473	Oil filter (MD2010/2020)	
3840525	Oil filter (MD2030/2040)	
861477	Fuel filter	
3586494	Impeller	1)
22222936	Impeller (MD2030/2040)	2)
3593573	Impeller (D6)	

1) MD2010 SN -5101203008, MD2020 SN -5101309052
2) MD2010 SN 5101203009-, MD2020 SN 5101309053-

TAMD41P/L/M/H-A/H-B, AD41P/L-A, KAD42A/B/P-A, KAMD42A/B/P-A, KAD43P-A, KAMD43P-A	
471034	Oil filter (41)
423135	Oil filter (42-43)
21624740	Fuel filter
838929	Engine zinc anode
858488	Air filter (TAMD41P/L/M/H-A/H-B, AD41P/L-A)
21646645	Air filter (later version 41)
876185	Air filter
21951356	Impeller

TMD41A/B/D/L-A, TAMD41A/B/D, D41A/B/D/L-A, AD41A/B/D, AQD41A, AQAD41A	
471034	Oil filter
21624740	Fuel filter
838929	Engine zinc anode
858488	Air filter
21646645	Air filter (later version)
21951356	Impeller
876069	Crankcase filter

AD31, MD31	
3517857	Oil filter
21492771	Fuel filter
838929	Engine zinc anode (A, B)
858488	Air filter (early model, metal)
21646645	Air filter (late model, plastic)
21951356	Impeller
876069	Crankcase filter (A, B)

Puller screw

The puller screw is the best way of removing the impeller from the sea water pump. It is very easy and there is no risk of damaging the pump housing.

Part no	Fits impeller
3843947	21951356
3843948	21951352
3843949	21951358

PETROL ENGINES

3.0GLP-C/D/E/J	
835440	Oil filter
21951348	Impeller, kit (C)
21213664	Impeller, kit (D/E/J)
3853799	Thermostat
3856537	Thermostat (o-ring)
3854260	Distributor cap
3854261	Distributor rotor
3888324	Plug wires
3586324	Drive belt (C)
3586325	Drive belt (D)
3860092	Drive belt (E)
3851857	Spark plugs

3.0GXi-J, 3.0GXiC-J	
835440	Oil filter spin on
21213664	Impeller kit
21148403	Thermostat
3856537	Thermostat (o-ring)
3854260	Distributor cap
3854261	Distributor rotor
3888324	Plug wires
21132392	Drive belt serpentine
3851857	Spark plugs

4.3GL-J/JF, GXi-J/JF, OSi-J/JF	
8692305	Oil filter insert
3862228	Fuel filter, spin on (GL-J, JF)
3847644	Fuel filter, spin on (GXi, OSi)
21213664	Impeller kit
3831426	Thermostat kit fresh
3852111	Thermostat gasket fresh/raw
416033	Thermostat o-ring fresh
3587597	Thermostat raw
983944	Thermostat o-ring raw
3854331	Distributor cap (GL)
3854311	Distributor rotor (GL)
3859019	Distributor cap (GXi, OSi)
3858977	Distributor rotor (GXi, OSi)
3888325	Plug wires
21132390	Drive belt
21513423	Spark plugs 6 Pack

4.3GXi-G/GF/OSi-G/GF	
835440	Oil filter
3862228	Fuel filter
21213664	Impeller kit
3831426	Thermostat, kit (GF)
3587597	Thermostat (G)
983944	Thermostat, o-ring (G)
3852111	Thermostat, gasket (G, GF)
3859019	Distributor cap
3858977	Distributor rotor
3888327	Plug wires
3889124	Drive belt
21513423	Spark plugs

5.0GL-J/JF, GXi-J/JF, OSi-J/JF	
8692305	Oil filter insert
3862228	Fuel filter, spin-on (GL)
3847644	Fuel filter, spin-on (GXi, OSi)
21213664	Impeller kit
983944	Thermostat o-ring raw
3852111	Thermostat gasket fresh/raw
3831426	Thermostat kit fresh/raw
3854548	Distributor cap
3862014	Distributor rotor
21132390	Drive belt
21467472	Spark plugs 4 pack

5.0GXi-G/GXi-GF/OSi-G/OSi-GF	
835440	Oil filter
3862228	Fuel filter
21213664	Impeller kit
3831426	Thermostat, kit
3858975	Distributor cap
3858977	Distributor rotor
3889124	Drive belt
21467472	Spark plugs 4 pack

5.7Gi300-J/JF, 5.7OSi-J/JF, 5.7GXi-J/JF, 5.7OSXi-J/JF	
8692305	Oil filter insert
3847644	Fuel filter, spin on
21213664	Impeller kit
3831426	Thermostat kit fresh/raw
3852111	Thermostat gasket fresh/raw
416033	Thermostat o-ring fresh
3587597	Thermostat raw
3858975	Distributor cap
3858977	Distributor rotor
21132390	Drive belt
21467472	Spark plugs 4 pack

5.7Gi-F/Gi-FF/GXi-G/GXi-GF/OSi-E/OSi-EF	
835440	Oil filter
3862228	Fuel filter
21213664	Impeller kit
3831426	Thermostat, kit, fresh
3587597	Thermostat raw
3852111	Thermostat gasket fresh/raw
983944	Thermostat o-ring raw
3858975	Distributor cap
3858977	Distributor rotor
3889124	Drive belt
21467472	Spark plugs 4 pack

7.4GL	
3850559	Oil filter
3862228	Fuel filter
3854286	Impeller (MD)
21951346	Impeller (HU, NC, LK)
3853983	Thermostat
3852071	Thermostat (seal ring)
3852111	Thermostat (gasket)
3851861	Spark plugs

7.4Gi, GSi, DPX385	
3850559	Oil filter
3862228	Fuel filter
21951346	Impeller
3853983	Thermostat
3852071	Thermostat (seal ring)
3852111	Thermostat (gasket)
3851861	Spark plugs (Gi - MD-LK, GSi, DPX)
3851857	Spark plugs (Gi - BY-EF)

8.1Gi-J/JF/GXi-J/JF/OSi-J/JF	
8692305	Oil filter
3847644	Fuel filter
21213664	Impeller kit
3831426	Thermostat, kit, fresh
3852111	Thermostat gasket fresh/raw
3853983	Thermostat, raw
3852071	Thermostat (o-ring, small)
3861000	Thermostat (o-ring, large)
21132385	Drive belt
963699	Spark plugs

8.1Gi-H/HF, 8.1GXi-G/GF, 8.1OSi-D/DF	
835440	Oil filter
3862228	Fuel filter
21213664	Impeller kit
3831426	Thermostat, kit, fresh
3853983	Thermostat, raw
3852071	Thermostat (o-ring, small)
3861000	Thermostat (o-ring, large)
21132390	Drive belt
3861326	Spark plugs

8.2GL	
3850559	Oil filter
3862228	Fuel filter
3854286	Impeller
3853983	Thermostat
3852071	Thermostat (o-ring)
3852111	Thermostat (gasket)
3851861	Spark plugs

8.2GSi, DPX415	
3850559	Oil filter
3862228	Fuel filter
21951346	Impeller (HU-BY)
21951348	Impeller (WT)
3853983	Thermostat
3852071	Thermostat (seal ring)
3852111	Thermostat (gasket)
3851861	Spark plugs

500A/B, 501A/B	
835440	Oil filter
855686	Fuel filter
3581078	Fuel filter
21951346	Impeller
876305	Thermostat
3851861	Spark plugs

570A, 571A, 572A	
835440	Oil filter
855686	Fuel filter
21951346	Impeller (w=31 mm)
876120	Impeller (w=50 mm)
876305	Thermostat
3851861	Spark plugs

740A, B	
835440	Oil filter
855686	Fuel filter
876120	Impeller
876305	Thermostat
3851861	Spark plugs

AQ95, AQ100, AQ110, AQ115, AQ120A, AQ130	
3517857	Oil filter
3581078	Fuel filter
22222936	Impeller
876080	Thermostat

AQ120B, AQ140, AQ145A, AQ165, AQ171	
3517857	Oil filter
3581078	Fuel filter
21951350	Impeller

AQ120B, AQ125A/B, AQ125B, AQ131A/B/C/D, 230A/B, BB140A, AQ140A, BB145A, AQ145A/B AQ151A/B/C, 250B, BB145A, AQ145A/B AQ151A/B/C, 250B	
3517857	Oil filter
21951350	Impeller
875580	Thermostat
875820	Spark plugs

AQ170A/B/C	
3517857	Oil filter
21951350	Impeller
875791	Thermostat
875804	Spark plugs

AQ225B/C/D/E/F	
835440	Oil filter
877765	Fuel filter
3581078	Fuel filter
3854286	Impeller (B/C)
876120	Impeller (D/E/F)
876305	Thermostat
3851861	Spark plugs

AQ231A/B, BB231A	
835440	Oil filter
855686	Fuel filter
3581078	Fuel filter
21951346	Impeller (AQ231A/B)
876120	Impeller (BB231A)
876305	Thermostat
3851861	Spark plugs

AQ255A/B	
835440	Oil filter
877765	Fuel filter
3581078	Fuel filter
3854286	Impeller (AQ255A)
21951346	Impeller (AQ255B, w=31 mm)
876120	Impeller (AQ255B, w=50 mm)
876305	Thermostat
3851861	Spark plugs

AQ260A/B, BB260A/B/C	
835440	Oil filter
877765	Fuel filter
3581078	Fuel filter
21951346	Impeller (w=31 mm)
876120	Impeller (w=50 mm)
876120	Impeller (AQ260B)
876305	Thermostat
3851861	Spark plugs

AQ271A/B/C/D, BB261A	
835440	Oil filter
855686	Fuel filter
3581078	Fuel filter
21951346	Impeller (w=31 mm)
876120	Impeller (w=50 mm)
21951346	Impeller (BB261A)
876305	Thermostat
3851861	Spark plugs

AQ280A, AQ290A	
835440	Oil filter
877765	Fuel filter
3581078	Fuel filter
21951346	Impeller (w=31 mm)
876120	Impeller (w=50 mm)
876305	Thermostat
3851861	Spark plugs

AQ311A/B	
835440	Oil filter
855686	Fuel filter
3581078	Fuel filter
21951346	Impeller (w=31 mm)
876120	Impeller (w=50 mm)
876305	Thermostat
3851861	Spark plugs

BB115A/B/C, AQ115A/B, AQ130A/B/C/D	
3517857	Oil filter
3593654	Impeller
876080	Thermostat
875803	Spark plugs

BB225A/B/C	
835440	Oil filter
877765	Fuel filter (A/B)
855686	Fuel filter (C)
3581078	Fuel filter
21951346	Impeller (w=31 mm)
876120	Impeller (w=50 mm)
876305	Thermostat
3851861	Spark plugs

DRIVES

110S	
22303438	Cover plate against hull
21389074	Rubber seal

120S/S-B/S-C/S-D/S-E	
854932	Cover plate against hull
21389074	Rubber seal

270, 270T	
876294	Drive joint bellow
875822	Coolant hose (270)
876631	Exhaust bellow

280, 280TA/PT	
876294	Drive joint bellow
876633	Exhaust bellow
875822	Coolant hose (280, PT)

280DP	
876294	Drive joint bellow
876631	Exhaust bellow
875822	Coolant hose

290, 290A, SP-A, SP-A1, SP-A2, SP-C, SP-C1, SP-E	
876294	Drive joint bellow
876631	Exhaust bellow
876632	Coolant hose

290DP/DP-A/DP-A1/DP-A2/DP-B/DP-B1/DP-C/DP-C1, DP-D/DP-D1/DP-E	
876294	Drive joint bellow
876631	Exhaust bellow
876632	Coolant hose

DPX-S/S1/R/A/G	
876294	Drive joint bellow
3860384	Drive joint bellow (A, G)
876631	Exhaust bellow
876632	Coolant hose

DPH-A/B/C, DPR-A	
3594509	Drive joint bellow
3588753	Exhaust bellow
21132674	Anti-barnacle bellow kit (steering cylinders)
3588767	Coolant hose

SX, DP-S, DPX		
3850426	Bellow Kit, Exhaust	SX-M
3587641	Exhaust Hose, HP Shield	SX-M, DP-SM
21277185	Bellow Kit - Drive	XDP
3885871	Bellow Kit, Exhaust	XDP

SX, DPS	
22197130	Drive joint bellow
3850426	Exhaust bellow

SX-A, DPS-A	
22197130	Drive joint bellow
3888916	Exhaust bellow

DPG	
876294	Drive joint bellow
3860384	Drive joint bellow (A, G)
876632	Coolant hose

Anodes to be found in the propeller section, page 75.

Drive maintenance kits

Volvo Penta introduces a number of new “do-it-yourself” kits for boat owners who want to do the simple maintenance work on their drive system. Each kit contains zinc anodes, drive gaiters and all parts required for an annual drive service.

Note! Oil is not included in these kits, and they contain zinc anodes only, not magnesium anodes.

Part no	Drive
877115	250, 270, 275, 275A
877116	280, 280PT, 285A
877117	280DP
877118	290, 290A, SP-A, SP-A1, SP-A2
877119	290DP, DP-A, DP-A1, DP-B, DP-B1
877120	DP-S, SX
877121	SP-C
877122	DP-C, DP-D, DP-E

Service kits for diesel engines

Contains the oil filter and fuel filter, as well as the impeller and all necessary gaskets.

Part no	Engine
877194	2001, 2002, 2003
877198	MD2010C, MD2020C, MD2030A, MD2030B, MD2030C, MD2040A, MD2040B, MD2040C
877201	D30, D31, D32
877202	D40, D41
877203	D42, D43, D44
21105842	D3
21189380	D1-13, D1-20
21189422	D1-30, 2-40
21189426	D2-55, D2-75
21704967	D6
21704968	D4

Tune-up kits for ignition systems

It’s an advantage to change all consumable parts of the ignition system at the same time. All the parts needed to service the ignition system are included under only one part number. This ensures you don't miss anything.

Part no	Engine	
3810233	5.0GL, 5.7GS	
3810234	5.0Gi, 5.7GSi, 7.4Gi	a)
3810235	5.7Gi, 7.4GSi, 7.4Gi, 8.2GSi, DPX385, DPX415	
3810236	5.7GL, 500B, 501B, 570A, 572A, 7.4GL, 740A, 740B	b)

a) 5.0Gi - BY, WT, EF. 5.7GLi - LK, BY, WT, EF. 5.7Gi - BY, WT, EF.
b) 5.7GL - MD, HU, NC, KL. 7.4GL - MD, HU, NC, KL. 8.2GL - MD, HU, NC

Tool kit

A comprehensive tool kit is essential onboard. Volvo Penta tool kits are specially designed for service operations and apart from quality tools also contain oil drain pump, knife, etc. Packed in a practical plastic tool box for easy stowage.

Part no
858282

This catalogue lists accessories and maintenance parts, which have been subjected to tests in terms of function and service life. Genuine Volvo Penta parts therefore fulfil Volvo Penta's quality and safety requirements. The illustrations in the catalogue are for information purposes only and should not be used for installation or workshop instruction purposes. In such cases reference should be made to the relevant technical publication. The Volvo Penta warranty does not cover damage that has been caused, or aggravated by the installation of a non-genuine part. The information contained in this catalogue has been checked carefully, but Volvo Penta cannot accept responsibility for any errors or incomplete information contained therein. Illustrations and dimension sketches do not always fully agree with the actual products. We reserve the right to make changes without prior notification.

Please note that some products listed may not be available in some markets.

Products that are affected by EU legislation, RCD - Recreational Craft Directive, 94/25/EC or EMC – Electromagnetic Compatibility Directive, 89/336/EEC, have been tested and approved according to the respective Directive.

Only products that fulfil the requirements of Recreational Craft Directive 94/25/EC can be installed in new boats intended for sale in European markets.

This catalogue is also available on the Internet, at www.volvopenta.com